C
B857H
1903-04

Bucknell University,
Lewisburg, Pa.

THE LIBRARY
OF THE
UNIVERSITY OF ILLINOIS

CATALOGUE

...1903-1904...

THE

FIFTY-FOURTH CATALOGUE

JUL 2 1916

OF THE

OFFICERS AND STUDENTS

OF

Bucknell University:

COLLEGE OF LIBERAL ARTS.

FOR THE YEAR 1903–1904.

Departments.

The College of Liberal Arts,..... 13 to 119
The Academy for Young Men,..... 120 to 146
The Institute for Young Women,..... 147 to 180
The School of Music for both Sexes,..... 181 to 194

SUMMARY OF ATTENDANCE.

The College of Liberal Arts,..... 451
The Academy for Young Men,..... 103
The Institute for Young Women,..... 100
The School of Music for both Sexes,..... 143
Total, ... 710

Plan and Purpose of the University

CORPORATE RIGHTS.

The University was incorporated with full University privileges by the Legislature of Pennsylvania, in an Act approved by the Governor on the fifth day of February, A. D. 1846. The management of the University is committed to a Board of Trustees, consisting of twenty-five members, or fewer at the option of the Board. The trustees are prohibited, for any cause or under any pretext whatever, from encumbering by mortgage or otherwise the real estate or any other property of the Institution. It is required by the charter that no religious sentiments are to be counted a disability to hinder the election of an individual to any office among the teachers of the institution, or to debar persons from attendance as pupils, or in any manner to abridge their privileges or immunities as students in any department of the University.

ENDOWMENT.

The institution has productive investments amounting to over $650,000. The endowment funds, raised at various times, were increased, in 1881, to an even $200,000. William Bucknell contributed to the general fund $115,000, and for scholarships and prizes about $25,000. One hundred thousand dollars additional for endowment was raised in 1892. In 1900, a fund of $75,000 for additional endowment and improvement was completed. An additional hundred thousand dollars of endowment was completed December 31, 1902. The total property of the institution aggregates one million dollars.

THE MILLION DOLLAR MOVEMENT.

The Board of Trustees at its meeting in January, 1903,

authorized an effort to increase the endowment by one million dollars. It is expected to obtain this sum by gifts and legacies. To persons desiring to aid in the movement the following forms of gifts are recommended.

FORMS OF GIFTS.

To persons wishing to leave money for the education of the young we suggest the following forms of beneficence:

(a) A department can be endowed for $100,000 and upward.

(b) Professorships can be endowed for $50,000 each.

(c) Fellowships can be endowed for $10,000 each.

(d) Scholarships can be endowed by a gift of $1,000 to $5,000, the income to be given toward the expenses of the student. The income will be estimated from the average income of the funds of the Institution.

(e) A loan fund should be established. The interest from this could be loaned to students, the principal being kept intact. In this way a large active loan-fund would accumulate.

Each of these forms of beneficence would bear and perpetuate the name of the donor or of the person designated by him.

FORM OF BEQUEST.

To persons desiring to aid in increasing the efficiency of the schools in their work of preparing young men and young women for usefulness, the following form of bequest is recommended:

I give and bequeath to the Bucknell University, at Lewisburg, Pennsylvania, the sum of ..... Dollars for the general purpose of said school, according to the Act of Assembly incorporating the same.

Or if for special purpose:

I give and bequeath to the Bucknell University, at Lewisburg, Pennsylvania, the sum of ..... Dollars for the establishment (of a Department, Professorship, fellowship, scholarship or loan fund), to bear and perpetuate the name of ..... forever.

ORGANIZATION.

The University comprises four schools:

I. **The College** offers seven Courses of study each of four years and each leading to its appropriate Degree:

1. **The Classical Course.**
2. **The Philosophical Course.**
3. **The General Science Course.**
4. **The Course in Jurisprudence.**
5. **The Course in Biology.**
6. **The Course in Chemistry.**
7. **The Course in Civil Engineering.**

II. **The Institute** for young women has three Courses of study, the Literary, the Classical, and the Scientific, leading to diplomas which admit to the Sophomore year in the College.

III. **The Academy** is designed to fit young men for College, either for the Classical, Philosophical, Scientific, or Technological courses.

IV. **The School of Music** has full Courses in instrumental and vocal music, and grants diplomas to those who complete any of the specified Courses.

These schools are one corporation, have one President, who has general charge, with a Principal in more immediate charge of each of the subordinate departments. All expenses are met from funds in the hands of a common treasurer.

The Board of Trustees,

Chairman, HARRY S. HOPPER, esq.,
28 South Third Street, Philadelphia.

Secretary, Rev. A. JUDSON ROWLAND, d. d., ll. d.,
1420 Chestnut Street, Philadelphia

Treasurer, Rev. DAVID PORTER LEAS, a. m.,
400 South Fortieth Street, Philadelphia.

Hon. E. A. ARMSTRONG, a. m. D. BRIGHT MILLER, a. m.
JOHN P. CROZER, a. m. Gen. CHARLES MILLER, a. m.
Col. JOHN J. CARTER. GEORGE M. PHILIPS, ph. d.
HIRAM EDMUND DEATS, esq. A. JUDSON ROWLAND, d.d., ll.d.
CALVIN GREENE, esq. LEROY STEPHENS, d. d.
Hon. WM. B. HANNA, d. c. l. JAMES S. SWARTZ, a. m.
Pres. JOHN H. HARRIS, ll. d. Hon. JOHN B. STETSON.
HARRY S. HOPPER, esq. Hon. F. J. TORRANCE, a. m.
Rev. DAVID PORTER LEAS, a.m. ERNEST L. TUSTIN, a. m., esq.
CRAIGE LIPPINCOTT, esq. JOSEPH K. WEAVER, a. m., m. d.
Hon. HAROLD M. McCLURE, a.m. HENRY G. WESTON, d.d., ll. d.
Hon. SIMON P. WOLVERTON, ll. d.

MEETINGS OF THE BOARD.

The annual meeting is held on Tuesday of Commencement week, at Lewisburg.

The semi-annual meeting is held on the second Thursday of January, at 1420 Chestnut Street, Philadelphia.

Committees of the Board.

COMMITTEE ON INSTRUCTION AND DISCIPLINE.

Rev. A. JUDSON ROWLAND, D. D., *Chairman.*

Rev. HENRY G. WESTON, LL. D. Hon. SIMON P. WOLVERTON, LL. D.
Rev. LEROY STEPHENS, D. D. ERNEST L. TUSTIN, A. M.
Hon. W. B. HANNA, D. C. L. GEORGE M. PHILIPS, PH. D.
AND THE PRESIDENT.

COMMITTEE ON FINANCE.

JAMES S. SWARTZ, A. M., *Chairman.*

Rev. DAVID PORTER LEAS, A. M. JOHN P. CROZER, ESQ.
HARRY S. HOPPER, ESQ. HIRAM EDMUND DEATS, ESQ.
JOSEPH K. WEAVER, M. D. Hon. E. A. ARMSTRONG, A. M.
Hon. JOHN B. STETSON. Hon. FRANCIS J. TORRANCE, A. M.
AND THE PRESIDENT.

COMMITTEE ON BUILDINGS AND LIBRARY.

D. BRIGHT MILLER, A. M., *Chairman.*

CRAIGE LIPPINCOTT, ESQ. Pres. JOHN H. HARRIS, LL. D.
Hon. SIMON P. WOLVERTON, LL. D. CALVIN GREENE, ESQ.
Gen. CHARLES MILLER, A. M. Hon. HAROLD McCLURE, A. M.
Col. JOHN J. CARTER.

COMMITTEE ON PUBLICATION.

Rev. LEROY STEPHENS, D. D., *Chairman.*

Rev. DAVID PORTER LEAS, A. M. Rev. HENRY G. WESTON, D. D., LL. D.
AND THE PRESIDENT.

The University Property.

I. THE MAIN COLLEGE.

The main College building is situated on a hill one hundred feet above the Susquehanna river, and overlooks scenery of unsurpassed beauty. It was designed by Thomas U. Walter, LL. D., architect of the dome and wings of the Capitol at Washington, D. C., and is in the Grecian style, combining dignity and simplicity. The building has a facade of three hundred and twenty feet. The central portion is eighty feet square, and is strengthened in front by four massive columns. On the first floor are six recitation rooms. On the second floor are the halls of the Theta Alpha and Euepia Literary Societies, the Library-rooms, Reading-room, and Museum of Natural History.

In the third story is Commencement Hall, with a seating capacity of fifteen hundred.

The wings on the eastern and western sides, respectively, of the Main Building, are each one hundred and twenty feet in length and four stories in height, and are used for students' rooms.

Several thousand dollars have been expended recently in improving the College building.

II. THE WEST COLLEGE.

The West College was ready for occupancy at the opening of the school year, September 20th, 1900. It is constructed of brick, four stories in height, and contains ninety-seven rooms, one of which is a hall for the use of the Young Men's Christian Association, another a reading-room, and the others are designed for the residence of students.

III. THE BUCKNELL HALL.

Bucknell Hall is the Chapel of the College. In it all the students of the College meet daily for worship.

IV. THE OBSERVATORY.

The Observatory was erected in 1887, and is designed for the use of students in Practical Astronomy.

The equipment represents the latest improvements in astronomical instruments. It consists of a Clark Equatorial Telescope of 10 inches aperture and 12½ feet focal length, furnished with a fine position Micrometer and all the usual accessories; a Spectroscope, with prism and grating by Brashear; a 3-inch prismatic Transit, with a 13-wire moveable Micrometer, a Fauth Chronograph with Bond Spring Governor; a Waldo Precision Clock for sidereal time, with mercurial compensation, break circuiting apparatus; Daniell's battery and telegraph sounders; a Seth Thomas Clock for solar time; a Sextant; a 3-inch Altitude Azimuth Refractor; a set of Meteorological instruments; Celestial globes and maps, and standard works on Theoretical and Practical Astronomy.

V. THE LABORATORY.

The laboratory was erected in 1890, and is a building forty-three feet in width and eighty-six feet in length, with two stories above the basement. In the first story, which has a clear height of fifteen feet, are a lecture-room, with seating for one hundred and twenty-five students, and a large working-room, in which are tables for individual work in Chemical Analysis; the second floor contains a lecture-room and rooms for laboratory work in Organic Science; the basement has a dark room for Photometry, a room for Applied Chemistry, another for Electricity, and a fire-proof room.

VI. THE PHYSICAL LABORATORY.

The Physical Laboratory was erected in 1902. It is a building of two stories, fifty by sixty, constructed of brick trimmed with brown stone. The basement serves for the heating and lighting plant of the Institution; the main story with one room twenty by fifty and another forty by forty-five accommodates the Department of Physics.

VII. THE TUSTIN GYMNASIUM.

The basement of the Gymnasium is built of stone, and contains an office for the director, rooms for students' lockers, dressing-rooms, and shower baths. The second story is built of brick, rising twenty-two feet from the main floor to the square and is open to the roof. At the height of twelve feet a running-track gallery, six feet wide, surrounds the room.

VIII. THE ATHLETIC FIELD.

The field is conveniently located at the foot of "College Hill," and has been graded and fitted up for out-door sports. In the northwest corner, at the main entrance to the college grounds, a shaded section has been set aside for tennis. The athletic field is sufficiently large for foot-ball, base-ball, and lacrosse. A running track, a quarter-mile in length, has been constructed on the eastern part of the campus. The Tustin Gymnasium is located at the end of the field, so as to be near the centre of exercise, and easily accessible to the trainers and students.

IX. THE ACADEMY.

1. **The Main Building** of the Academy is situated on "College Hill," and is fifty feet in width by eighty feet in length, and three stories in height. On the first floor is a dining-room, thirty feet by thirty-six feet; two recitation-rooms, a reception room and the Principal's office; on the second

floor are suites of rooms for the Principal and his family and for the Matron. The third floor is occupied by students' rooms, each twenty feet by twelve feet, and fourteen feet high.

2. **The East Hall** of the Academy is the Bucknell Cottage for young men, and is contiguous to the main building and connected with it by a covered passage-way. It is of brick, three stories high, sixty feet in length and forty feet in width, and is finished in natural wood. The building contains a general study-room, a recitation-room, teachers' apartments, and rooms for students. The rooms have high ceilings, large double windows with inside shutters and two commodious closets each.

Both buildings are supplied with hot and cold water and are warmed by steam.

X. THE DEPARTMENT FOR WOMEN.

The buildings and campus of this department are set apart for the use of women taking courses in the College, in the Institute and in the School of Music.

1. **The Main Building** contains, on the first floor, an office for the Principal and the Registrar, a reception-room, the office of the Director of Music, five music-rooms, two recitation-rooms and a dining-hall; on the second floor a school-room and a parlor; on the third floor a library-room, teachers' apartments, and students' rooms.

2. **The South Hall** erected in 1869, is devoted to students' rooms, except the third story, which is used as a gymnasium. This gymnasium has been lately improved and equipped.

3. **The Bucknell Cottage** stands to the southwest of the Main Building, and is connected with it by an enclosed passageway. It is built of brick, in the Queen Anne style of architecture, and has dimensions of thirty-three feet by one hundred feet. The interior is finished in natural wood,

and is equipped, in matters of light, heat, and ventilation, with modern improvements.

The portion allotted to students' rooms affords accommodations for forty occupants. These rooms are in suites on the general plan of a centre parlor, with bed-rooms and closets on either side. In this building is the **Studio**, a spacious room with such adjustments for the admission of light and supply of unencumbered wall surfaces as adapt it for the execution and display of art products.

All the buildings are supplied with hot and cold water, and are warmed by steam.

4. **The Campus** of the Women's Department comprises six acres, separated from the college grounds by Loomis Street.

XI. HEATING AND LIGHTING PLANT.

A central steam heating and electric lighting plant has been erected; all the rooms, public and private, in the several buildings of the Institution are warmed from this plant.

XII. THE PRESIDENT'S HOUSE.

The Corporation also owns a house for the use of the President of the University.

THE COLLEGE.

THE FACULTY AND OTHER OFFICERS.

JOHN HOWARD HARRIS, PH. D., LL. D., PRESIDENT,
AND PROFESSOR OF PSYCHOLOGY AND ETHICS.

*FREEMAN LOOMIS, A. M., PH. D.,
PROFESSOR OF MODERN LANGUAGES AND LITERATURE.

GEORGE G. GROFF, M. D., PH. D., LL. D.,
PROFESSOR OF ORGANIC SCIENCE.

WILLIAM CYRUS BARTOL, A. M., PH. D.,
PROFESSOR OF MATHEMATICS AND ASTRONOMY.

FRANK ERNEST ROCKWOOD, A. M., LL. D.,
PROFESSOR OF THE LATIN LANGUAGE AND LITERATURE,
AND DEAN OF THE COLLEGE.

WILLIAM GUNDY OWENS, A. M.,
PROFESSOR OF PHYSICS AND CHEMISTRY.

ENOCH PERRINE, A. M., LITT. D.,
PROFESSOR OF THE ENGLISH LANGUAGE AND LITERATURE,
AND SECRETARY OF THE FACULTY.

*On leave of absence.

THOMAS FRANKLIN HAMBLIN, A. M.,

NEW JERSEY PROFESSOR OF THE GREEK LANGUAGE AND LITERATURE.

LINCOLN HULLEY, A. M., PH. D.,

PROFESSOR OF HISTORY.

WILLIAM EMMET MARTIN, A. M.,

PROFESSOR OF SOCIOLOGY AND ANTHROPOLOGY.

MISS EVELINE JUDITH STANTON, PH. M.,

DEAN OF THE COLLEGE WOMEN.

NELSON FITHIAN DAVIS, SC. D.,

PROFESSOR OF BIOLOGY.

EPHRAIM M. HEIM, PH. D.,

PROFESSOR OF ECONOMIC AND POLITICAL SCIENCE.

GUIDO CARL LEO RIEMER, A. M.,

PROFESSOR OF MODERN LANGUAGES.

LLEWELLYN PHILLIPS, A. M.,

JOHN P. CROZER PROFESSOR OF RHETORIC AND ORATORY.

CALVIN AURAND HARE, A. M.,

PROFESSOR OF CHRISTIAN EVIDENCES AND LOGIC.

ELYSEE AVIRAGNET, A. M., MUS. DOC.,

INSTRUCTOR IN THE ROMANCE LANGUAGES.

JOSEPH MEIXELL WOLFE, A. M.,
INSTRUCTOR IN MATHEMATICS.

CHARLES ARTHUR LINDEMANN, A. M.,
INSTRUCTOR IN APPLIED MATHEMATICS.

FRANK MORTON SIMPSON, SC. M.,
INSTRUCTOR IN MECHANICAL DRAWING AND PHYSICS.

FLOYD GEORGE BALLENTINE, PH. D.,
INSTRUCTOR IN LATIN.

PAUL EMIL WEITHAASE, A. M.,
INSTRUCTOR IN GERMAN.

MANSFIELD FRENCH FORBELL, A. B.,
INSTRUCTOR IN ORATORY.

WILLIS EDGAR MANEVAL, PH. B.,
ASSISTANT IN BIOLOGY.

MARY UNGER, A. B.,
ASSISTANT IN ENGLISH.

KATHARINE MOTT JOHNSON, A. B.,
ASSISTANT IN ENGLISH.

HAROLD MURRAY McCLURE, A. M.,
PRESIDENT JUDGE, SEVENTEENTH JUDICIAL DISTRICT,
LECTURER ON CONTRACTS AND PRACTICE.

FREDERICK EVANS BOWER, A. M.,
ATTORNEY-AT-LAW,
LECTURER ON EVIDENCE AND EQUITY.

ALBERT WILLIAM JOHNSON, A. M.,
ATTORNEY-AT-LAW.
LECTURER ON REAL AND PERSONAL PROPERTY.

WILLIAM LEISER, M. D.,

LECTURER ON DIAGNOSIS.

WEBER L. GERHART, M. D.,

LECTURER ON ANATOMY.

CHARLES ALEXANDER GUNDY, M. D.,

LECTURER ON SURGERY.

LEMUEL MOSS, D. D., LL. D.,

LECTURER ON SOCIAL SCIENCE.

BENAIAH L. WHITMAN, LL. D.,

LECTURER ON PRACTICAL ETHICS.

WAYLAND HOYT, D. D., LL. D.,

LECTURER ON SOCIAL ETHICS.

WILLIAM EMMET MARTIN, A. M.,

LIBRARIAN.

WILLIAM CHRISTIAN GRETZINGER, PH. B.,

REGISTRAR OF THE UNIVERSITY.

REV. CALVIN AURAND HARE, A. M.,

FINANCIAL SECRETARY.

Alumni Associations.

The General Alumni Association.

President, HENRY H. BLISS, A. M., LL. B., Philadelphia.
Secretary, Prof. W. G. OWENS, A. M., Lewisburg.

The Alumni Club of Philadelphia.

President, SAMUEL LEWIS ZIEGLER, SC. D., M. D., Philadelphia.
Secretary, JOSEPH ROBERT WOOD, A. M., Philadelphia.

The Alumni Club of New York City.

President, T. A. K. GESSLER, D. D., New York City.
Secretary, W. R. MAUL, PH. B., Erastina, L. I.

The Alumni Club of Pittsburg.

President, JOHN SPEED HUTSON, D. D., Allegheny.
Secretary, WILLIAM M. WOODWARD, M. D., McKeesport.

The Alumni Club of the University of Chicago.

President, A. R. E. WYANT, PH. D., Chicago.
Secretary, JOSEPH C. HAZEN, PH. B., Chicago.

The Alumni Club of Northeastern Pennsylvania.

President, WILLARD MAINE BUNNELL, A. B., ESQ.,
Secretary, CHARLES W. DAWSON, ESQ., *Scranton.*

The Alumni Club of Harrisburg.

President, JOHN C. NISSLEY, A. M., ESQ., Harrisburg.
Secretary, HARVEY F. SMITH, M. D., Harrisburg.

The Alumni Club of Washington City.

President, HENRY H. BLISS, A. M., ESQ., Washington, D. C.
Secretary, A. F. ANDERSON, A. B., Washington, D. C.

The Alumni Club of Central Pennsylvania.

President, JUDGE MARTIN BELL, A. M., Hollidaysburg.
Secretary, S. F. FORGEUS, D. D., Huntingdon.

The Alumni Club of Williamsport.

President, PROF. W. W. KELCHNER, A. M., Williamsport.
Secretary, CLARENCE A. WEYMOUTH, SC. B., Lock Haven.

The Alumni Club of Lewisburg.

President, ANDREW A. LEISER, A. M., ESQ., Lewisburg.
Secretary, CHARLES J. WOLFE, A. M., Lewisburg.

Names of Students.

GRADUATE STUDENTS.

NAME.	MAJOR SUBJECT.	RESIDENCE.
Archibald Merrill Allison, A. B.,	*History.*	Spring Mills
Charles Fayette Armour, PH. B.,	*History,*	Girard
Caleb Barrett Ayars, SC. B.,	*Bible.*	Salem, N. J.
Lyndon Ernest Ayres, A. B.,	*Bible.*	Jenkintown
Edna Lorine Bacon, A. B.,	*Classics.*	Bridgeton, N. J.
Charles Franklin Bidelspacher, A. B.,	*Jurisprudence.*	Williamsport
Benjamin Franklin Bieber, A. B.,	*Sociology.*	Pottsgrove
George Ripley Bliss, A. B.,	*Classics.*	Washington, D. C.
Harry Silverwood Bogar, PH. B.,	*Economics.*	Herndon
Charles Isaiah Boyer, PH. B.,	*Jurisprudence.*	Wyncote
Percy Myron Bullard, A. B.,	*History.*	Williamsport
Charles Wolverton Clement, SC. B.,	*Jurisprudence.*	Sunbury
Elva Sarah Coleman, PH. B.,	*English Literature.*	Reynoldsville
John Belmont Cook, SC. B.,	*Science.*	Factoryville
Emmanuel Wilson Cober, SC. B.,	*Science.*	Philadelphia
George T. Cooper, SC. B.,	*English Literature.*	Lewistown

NAME.	MAJOR SUBJECT.	RESIDENCE.
GEORGE MORGAN DAVIS, PH. B.,	*Semitics.*	Ellwood City
MARY PROTHEROE DAVIES, SC. B.,	*Literature.*	Scranton
JOHN DAVIS, A. B.,	*Classics.*	Nanticoke
FRANK WEBER DILLON, A. B.,	*Literature.*	Erie
EMMA REBEKAH EBLING, A. B.,	*Language.*	Danville
MINNIE GERTRUDE ECKELS, PH. B.,	*Literature.*	Edinboro
CALVIN HAYES ELLIOT, SC. B.,	*Organic Science.*	Hartleton
DAVID HAYES ELLIOTT, A. B.,	*Organic Science.*	San Diego, Cal.
CHARLES FRED EISENMENGER, A. B.,	*German.*	Rochester, N. Y.
ANDREW NEBINGER EVANS, A. B.,	*Greek.*	Chicago, Ill.
LEVI TRUCKENMILLER FETZER, PH. B.,	*Jurisprudence.*	New York City
AMZI WILSON, GEARY, PH. B.,	*History.*	Carbondale
CARRIE LOUISE GEARY, PH. B.,	*History.*	Carbondale
MARIA MAUDE GODDARD, A. B.,	*Classics.*	Washington, D. C.
CHARLES EDWARD GOODALL, PH. B.,	*New Testament Greek.*	Chester
SARA MABEL GRIER, A. B.,	*Organic Science.*	Salem, N. J.
BENJAMIN W. GRIFFITH, PH. B.,	*History.*	Lock Haven
ABRAM CYRUS GUNTER, A. B.,	*German.*	Nyack, N. Y.
CARRIE JEANNETTE HALFPENNY, SC. B.,	*Literature.*	Milton
CHARLES ELLSWORTH HANKEY, A. B.,	*Philosophy.*	Kittanning
ELI PETER HECKERT, A. B.,	*German.*	Mauch Chunk

NAME.	MAJOR SUBJECT.	RESIDENCE.
ELBERT HUFF, SC. B.,	*Science.*	Stonington
JOHN THOMAS HYATT, PH. B.,	*Jurisprudence.*	Jersey Shore
HENRY JOSEPH JOHNSON, PH. B.,	*Church History.*	Rochester, N. Y.
KATHARINE MOTT JOHNSON, A. B.,	*English Literture.*	Lewisburg
JAMES LLOYD KALP, PH. B.,	*Economics.*	Saltsburg
WILLIAM LAWRENCE KALP, A. B.,	*Science.*	Mt. Pleasant
WARREN LESLIE KAUFFMAN, PH. B.,	*Jurisprudence.*	Yonkers, N. Y.
CHARLES DISON KOCH, PH. B.,	*Education.*	Philipsburg
RALPH FREDERICK KOONS, PH. B.,	*History.*	Conyngham
DANIEL HORATIO KRISE, PH. B.,	*Education.*	Galeton
THOMAS PHILLIPS KYLE, PH. B.,	*Literature.*	Brooklyn, N. Y.
SARAH ESTHER LEE, A. B.,	*Classics.*	Jermyn
DANIEL ELWOOD LEWIS, PH. B.,	*New Testament Greek.*	West Pittston
MARY LILA LONG, A. B.,	*English Literature.*	Williamsport
IDA EVALINE LUCHSINGER, A. B.,	*History.*	West Pittston
WILLIAM NOGEL MARSH, SC. B.,	*Jurisprudence.*	Ann Arbor
HARRY SILL MAUSER, SC. B.,	*Science.*	McEwensville
JOHN WILLIAM MCCRACKEN, A. B.,	*Jurisprudence.*	Kermoor
CHARLES FRANKLIN MCMANN, A. B.,	*Philosophy.*	Rosedale, Kansas
HOWARD CURTIS MESERVE, A. B.,	*New Testament Greek.*	Milford, Conn.
JOHN HENRY NEUHAUSER, A. B.,	*Philosophy.*	Springfield, Ohio

NAME.	RESIDENCE.	ROOM.
ANNA ELIZABETH NOAKER, PH. B.,		Milton
	German.	
EDITH LEE PHILLIPS, A. B.,		Mt. Pleasant
	Classics.	
WILLIAM CAREY PURDY, SC. B.,		Slippery Rock
	Organic Science.	
FRANCES ANNA RACE, A. B.,		Scranton
	Literature.	
PHILIP REILLY, A. B.,		Philadelphia
	Education.	
WALTER KREMER RHODES, PH. B.,		Fairplay
	Mathematics.	
GRACE BROWNING ROBERTS, PH. B.,		Williamsport
	English Literature.	
WILLIAM SAWYER ROBINSON, PH. B.,		Centralia
	History.	
DAVID HOWARD ROBBINS, A. B.,		Philipsburg
	History.	
FREDERICK W. ROBBINS, PH. B.,		Bethlehem
	History.	
CHARITY MARGARET RUNYAN, A. B.,		Washington, D. C.
	English Literature.	
FRANCES GERTRUDE SCOTT, SC. B.,		Lewisburg
	Science.	
HELEN AGATHA SELINGER, SC. B.,		McKean
	Science.	
EDGAR THOMAS SHIELDS, A. B.,		Philadelphia
	Organic Science.	
THORNTON MOORE SHORKLEY, PH. B.,		Philadelphia
	Organic Science.	
AMANDUS MERKLE SMITH, A. B.,		Kutztown
	Mathematics.	
ARTHUR ANSON SMITH, PH. B.,		Williamsport
	Jurisprudence.	
SAMUEL CALVIN SMITH, SC. B.,		Philadelphia
	Science.	
JOHN MCKISSICK SNOW, A. B.,		Ottawa, Kansas
	Science.	
JAMES WILSON SNYDER, A. B.,		Berwick
	Jurisprudence.	
HARRY THOMAS SPRAGUE, PH. B.,		Philadelphia
	New Testament Greek.	

NAME.	RESIDENCE.	ROOM.
CLOYD NILLIS STEININGER, SC. B.,		Lewisburg
	Jurisprudence.	
ERNEST LAUNCELOT TAYLOR, SC. B.,		Luzerne
	Mathematics.	
ROBERT JOSIAH TERRELL, A. B.,		New York City
	History.	
MARY EDNA THATCHER, SC. B.,		Elizabeth, N. J.
	Science.	
CARL WAYLAND TIFFANY, A. B.,		Factoryville
	Jurisprudence.	
GEORGE STEPHEN TILLEY, A. B.,		Hyde Park, Mass.
	German.	
HARLAND A. TRAX, PH. B.,		Meadville
	Jurisprudence.	
LEVI JOSEPH ULMER, SC. B.,		Williamsport
	Education.	
MABEL ESTELLE WHEELER, PH. B.,		Erie
	Literature.	
AUGUSTA GENEVIEVE WHITE, SC. B.,		Ann Arbor, Mich.
	Organic Science.	
AMOS THOMAS WILLIAMS, PH. B.,		Ridgway
	Organic Science.	
HOWARD KING WILLIAMS, A. B.,		Philadelphia
	Philosophy.	
JOHN E. WILLIAMS,		Olyphant
	Education.	
RUTLEDGE THORNTON WILTBANK, PH. B.,		Hollidaysburg
	Bible.	
CHARLES WAGNER WOLFE, A. B.,		Newton Centre, Mass
	New Testament Greek.	
JENNY MAY WOOD, A. B.,		Factoryville
	Literature.	
JOHN ADAM YOUNG, PH. B.,		Centre Hall
	Education.	
WILLIAM D. ZERBY, A. B.,		Bellefonte
	Literature.	

GRADUATE STUDENTS, 97.

THE SENIOR CLASS.

CLASS OF 1904.

NAME.	RESIDENCE.	ROOM.
ESTELLA MAY ALBRIGHT,	*Mifflinburg.*	South Fifth Street
FORD DORRANCE BACON,	*Harveyville.*	No. 50, West College
BLANCHE ALLYN BANE,	*Norristown.*	Institute
PERCIVAL DEWEES BROWNING,	*Orbisonia.*	St. George Street
GAUL CARRIER,	*Summerville.*	No. 53, West College
CARROLL CARUTHERS,	*Irwin.*	No. 51, West College
HALDY MILLER CHRIST,	*Millersville.*	No. 46, West College
RALPH BENNIE COOK,	*Vicksburg.*	Vicksburg
THOMAS EDWARD CULE,	*Plymouth.*	South Sixth Street
FRANK GARFIELD DANIELS,	*Nanticoke.*	No. 16, West Wing
ANNA ZOE DAVIS,	*Carlisle.*	Institute
GILBERT MASON DEATS,	*Pittstown, N. J.*	No. 56, West College
JAMES G. DURHAM,	*Watsontown.*	Watsontown
CHARLES HODGE EALY,	*Schellsburg.*	No. 14, West Wing
RACHEL EDNA EDDLEMAN,	*Greensburg, Ind.,*	North Third Street
ROGER SAUNDERS EDWARDS,	*Lewisburg.*	Academy
ELWOOD F. GILBERT,	*Montoursville.*	No. 53, West College
WALLACE WILMER FETZER,	*Montandon.*	No. 25, East Wing
EDWIN PATTERSON GRIFFITHS,	*Pittsburg.*	No. 52, West College

NAME.	RESIDENCE.	ROOM.
MARGARET GROFF,	*Lewisburg.*	Lewisburg
VELOLA E. HALL,	*Sharon.*	Institute
JULIUS ROBERT HAYES,	*Montoursville.*	No. 17, West Wing
JOHN EDWARD HEIDENREICH,	*Mahanoy City.*	St. George Street
JOHN ERB HUNSBERGER,	*Ephrata.*	No. 2, East Wing
CLARENCE MILLER HURSH,	*Mifflinburg.*	No. 17, West Wing
JOHN C. JOHNSON,	*Red Top.*	Red Top
ALBERT GEORGE KARGE,	*Camden, N. J.*	No. 13, East Wing
ROYAL IVAN KNAPP,	*Union City.*	No. 14, West Wing
JOHN ARTHUR KNUPP,	*Penbrook.*	No. 70, West College
CURTIS COOK LESHER,	*Lewisburg.*	Lewisburg
JOHN LEVERING LIVEZEY,	*Philadelphia.*	No. 20, West College
WILLIAM MUENCH MARTZ,	*Crowl.*	No. 49, West College
HARRY EDWARD MCCORMICK,	*Philadelphia.*	No. 31, West College
EBENEZER EDWARD MORRIS,	*Mahanoy City.*	No. 82, West College
CHARLES R. MYERS,	*Lewisburg.*	North First Street
HAROLD PERRINE,	*Lewisburg.*	South First Street
ELIZABETH EVA REED,	*Lewisburg.*	North Third Street
CHESTER BENJAMIN RENN,	*Unityville.*	No. 20, West Wing
WILLIAM EDWARD ROBERTS,	*Frackville.*	No. 8, East Wing
LOUIS WILLIAM ROBEY,	*Baltimore, Md.*	No. 10, West Wing

NAME.	RESIDENCE.	ROOM.
David Wallace Robinson,	*Mooresburg.*	No. 12, West Wing
Olive Schillinger,	*Martin's Ferry, O.*	Institute
Ira Sankey Sheppard,	*Newport, N. J.*	No. 54, West College
Harris Alvin Spotts,	*Muncy.*	Muncy
John Henry Stahl,	*Milton.*	Milton
Edgar Taft Stevenson,	*Franklin.*	No. 27, West College
Alif Stephens,	*Lewisburg.*	South Sixth Street
Dean Marvin Sutton,	*Union City.*	No. 29, West Wing
Charles Milton Teufel,	*Milton.*	Milton
Robert William Thompson,	*Irwin.*	No. 16, West Wing
Lloyd Webster,	*East New Market, Md.*	No. 62, West College
Benjamin Franklin White, Jr.,	*Bradford.*	Market Street
Walter Samuel Wilcox,	*Canton.*	St. George Street
Elizabeth Alvina Williams,	*Lansford.*	South Fourth Street
Clyde Dale Wolfe,	*Lewisburg.*	Lewisburg

SENIORS, 55.

THE JUNIOR CLASS.

CLASS OF 1905.

NAME.	RESIDENCE.	ROOM.
COTTIE GUDILA ALBRIGHT,	*Lewisburg.*	Market Street
JEREMIAH STAMEY AUSHERMAN,	*Chambersburg.*	No. 19, East Wing
WILLIAM ANDREW BARTOL,	*Lewisburg.*	University Avenue
RALPH LESHER BELFORD,	*Milton.*	Milton
EMORY OLIVER BICKEL,	*West Milton.*	West Milton
JOSEPH S. BITTENBENDER,	*Nanticoke.*	No. 65, West College
ROY GRIER BOSTWICK,	*Du Bois.*	No. 65, West College
RAY PRESTON BOWEN,	*Wellsboro.*	No. 84, West College
MARY ISABEL BOWER,	*Lewisburg.*	South Sixth Street
FERNE FRICK BRADDOCK,	*Mt. Pleasant.*	Institute
LAVERDA ADELIA BURGART,	*Altoona.*	Institute
WILLIAM FRANK CARUTHERS,	*Irwin.*	No. 65, West College
GEORGE WASHINGTON CHEESMAN,	*Philadelphia.*	No. 13, East Wing
GEORGE WASHINGTON COCKILL,	*Glen Carbon.*	No. 12, East Wing
CLAIRE MARIE CONWAY,	*Greenville.*	Institute
HARRY ALLEN CORYELL,	*Shamokin Dam.*	No. 72, West College
WILLIAM LUTHER DENTLER,	*Watsontown.*	Watsontown
JOHN HENRY EISENHAUER, JR.,	*Kelly Point.*	Kelly Point
JAMES EDWARD ELLIOTT,	*New Castle.*	No. 14, East Wing

NAME.	RESIDENCE.	ROOM.
Margaret Forgeus,	*Huntingdon.*	Institute
Clarence Lynn Fry,	*Harrisburg.*	No. 23, West College
Edmund Roy Gardner,	*McKeesport.*	No. 87, West College
William S. Gilmore,	*Montgomery.*	No. 2, West Wing
Nellie May Goddard,	*Lewisburg.*	South Water Street
Lynn Sumner Goodman,	*Loganton.*	St. George Street
William Amos Warren Grier,	*Salem, N. J.*	Market Street
John Charles Groff,	*Lewisburg.*	Lewisburg
Levi Morrill Hainer,	*Norristown.*	No. 51, West College
Roy Hanna,	*Bradford.*	South Seventh Street
Frederick B. Harding,	*Milton.*	Milton
Norman Elwood Henry,	*Williamsport.*	No. 32½, West Wing
Phares Gross Hess,	*Manheim.*	No. 5, East Wing
Clara Maude Hummel,	*Kratzerville.*	Market Street
Elmer Azima Hummel,	*Kratzerville.*	Market Street
Laura Mae Hummel,	*Kratzerville.*	Market Street
Lewis Columbus Hylbert,	*Clarksburg, W. Va.*	No. 11, East Wing
Erskine Jarrett,	*Montgomery.*	South River Road
Nellie Estella Johnson,	*Mount Carmel.*	Institute
Edith Hedges Kelly,	*Lewisburg.*	South Third Street
Grace Belle Lesher,	*Northumberland.*	South Fifth Street

NAME.	RESIDENCE.	ROOM.
HAROLD VONIEDA LESHER,	*Northumberland.*	South Fifth Street
LENA RUTH LESHER,	*Northumberland.*	South Fifth Street
DONALD ROCKEFELLER MCCAIN,	*Philadelphia.*	No. 58, West College
FRANCIS LEROY MCCAULEY,	*Horseheads, N. Y.*	No. 12, West Wing
JESSIE MCFARLAND,	*Watsontown.*	Watsontown
ROBERT BRUCE MACKEY,	*Waverly.*	St. George Street
CHARLES STEPHEN MARSH,	*New Bethlehem.*	No. 40, West College
ELIZABETH BRITON MEEK,	*Allenwood.*	Allenwood
EARL AUSTIN MORTON,	*Dravosburg.*	No. 88, West College
WILLIAM GRAY MURDOCK,	*Milton.*	Milton
HELENA MOE OLDS,	*Elmhurst.*	University Avenue
INEZ EDNA OLDS,	*Elmhurst.*	University Avenue
CLARENCE IRA PHILLIPS,	*Turbotville.*	No. 28, East Wing
LEE RUSSELL RANCK,	*Lewisburg.*	No. 9, East Wing
VERNON NELSON ROBBINS,	*St. Paul, Minn.*	No. 15, West Wing
ROBERTS DALE ROYER,	*Huntingdon.*	No. 52, West College
JOHN CALVIN SANDERS,	*Vicksburg.*	Vicksburg
CHARLES HENRY SCHEICK,	*Uniontown.*	No. 13, West Wing
BLAINE WALTER SCOTT,	*Monongahela.*	No. 26, West Wing
SAMUEL MAJOR SEIBERT,	*Coudersport.*	No. 21, West College
ROBERT FRANCIS SHEPPARD,	*Cedarville, N. J.*	No. 1, East Wing

NAME.	RESIDENCE.	ROOM.
RUTH AMELIA SHORKLEY,	*Lewisburg.*	South Third Street
JOHN BEISEL SMILEY,	*Titusville.*	No. 32, West College
PAUL GARFIELD SMITH,	*Harrisburg.*	No. 57, West College
PEARL LOIS SMITH,	*Erie.*	South First Street
CLARK SNYDER,	*Bloomsburg.*	No. 21, West Wing
ANTHONY STEINHILPER,	*Warrensville.*	No. 10, West Wing
EVA BLANCHE STONER,	*Alverton.*	Institute
JAMES STRIMPLE, JR.,	*Pedricktown, N. J.*	No. 71, West College
JAMES TAGGART,	*Frackville.*	No. 4, West College
NELLIE THOMAS,	*Philipsburg.*	Institute
HAROLD EDWARD TIFFANY,	*Lewisburg.*	No. 29, West Wing
ALBERT OGDEN VORSE,	*Lewisburg.*	North Fourth Street
CLIFFORD VERNON WILLIAMSON,	*Salladasburg.*	No. 9, West Wing
THOMAS WOOD,	*Muncy.*	No. 47, West College
MARTHA WOLFE,	*Lewisburg.*	South Third Street

JUNIORS, 76.

THE SOPHOMORE CLASS.

CLASS OF 1906.

NAME.	RESIDENCE.	ROOM.
FLORENCE LOUISE BACON,	*Canton.*	Institute
JAMES RILEY BAILEY,	*Greensburg.*	No. 15, West Wing
GENUS EBERT BARTLETT,	*Webster, W. Va.*	No. 11, East Wing
AMOS ETHAN BARTON,	*Vilas.*	No. 13, West Wing
EDWIN ANTHONY BEAVER,	*Huntingdon.*	No. 94, West College
SAMUEL JAMES BLACK,	*Franklin.*	No. 69, West College
ELBERT LITTLE BLAKESLEE,	*Montrose.*	Market Street
SOPHIA LOUISA BODLER,	*Germania.*	Institute
NORRIS LEVIS BROWN,	*West Chester.*	No. 30, West Wing
JOHN IRA CATHERMAN,	*Lewisburg.*	St. Louis Street
JOSEPH LEIGHTON CHALLIS,	*Waverly.*	No. 23, West Wing
BURLEIGH CLAYPOOL,	*Kittanning.*	No. 6, West Wing
FLORENCE JEANNETTE COBB,	*Coudersport.*	Institute
HAROLD NEWTON COLE,	*Du Bois.*	No. 76, West College
CLARENCE BURNAP COMSTOCK,	*Grover.*	No. 4, East Wing
WILLIAM THOMAS COVERDALE,	*Lewisburg.*	South Sixth Street
WILLIAM EUGENE DEMELT,	*South Westerlo, N. Y.*	South Third Street
JOHN GROVER DENNINGER,	*Great Valley, N. Y.*	South Seventh Street
GEORGE LOUIS DEWALD,	*Hartley Hall.*	No. 86, West College

NAME.	RESIDENCE.	ROOM.
LINN CLARK DRAKE,	*Tunkhannock.*	No. 23, West Wing
ERI MADISON FARR,	*Muncy.*	No. 2, West Wing
ANDREW CURTIS FEINOUR,	*Lewisburg.*	Lewisburg
FRED VORIS FOLLMER,	*Milton.*	.. Milton
SARA CYRENA FURMAN,	*Wellsboro.*	Institute
BENAJAH JACK GARDNER,	*Factoryville.*	No. 23, West Wing
GEORGE MCCRACKEN GASKILL,	*Newport, N. J.*	No. 55, West College
MAURICE FRANK GOLDSMITH,	*Carnegie.*	No. 32, West Wing
JOHN WALLACE GREENE,	*Norristown.*	No. 91, West College
BESSIE ELLA HARPEL,	*Mt. Carmel.*	Institute
GEORGE BAILEY HARRIS,	*Lewisburg.*	University Avenue
ROMAINE HASSRICK,	*Muncy.*	No. 9, West Wing
ARMEL BOLTZ HEFFLING,	*Mt. Pleasant.*	No. 20, East Wing
JOHN FRANKLYN HENNESSY,	*Irwin.*	No. 75, West College
LEROY W. HOON,	*Monongahela.*	No. 17, West College
CHARLES MCCALLUM HOWELL, JR.,	*Northumberland.*	No. 3, East Wing
EDNA ANN INNES,	*Canton.*	Institute
EDWIN GILMORE JACK,	*Berwick.*	South Third Street
WALTER JARRETT,	*Sunbury.*	Sunbury
HENRY JONES,	*Plymouth.*	No. 7, East Wing
RACHEL ALLIE KANARR,	*Lancaster.*	South Fifth Street

NAME.	RESIDENCE.	ROOM.
Augustus Sheridan Kech,	*Snow Shoe.*	No. 11, West Wing
Clyde Treon Kiess,	*Hughesville.*	No. 4, West Wing
Oscar J. Kingsbury,	*Nanticoke.*	No. 76, West College
Charles Aaron Knupp,	*Penbrook.*	No. 59, West College
Edith E. Lane,	*Ulysses.*	Institute
Robert Benjamin Leighou,	*Northumberland.*	No. 6, East Wing
Henry Johnson Lose,	*Williamsport.*	No. 34, West College
Joseph Cipriano Macro,	*Reynoldsville.*	No. 79, West College
Florence A. McCaskie,	*Short Hills, N. J.*	Institute
Clay Montgomery McCormick,	*Lock Haven.*	St. George Street
Grace Lenore Meek,	*Reynoldsville.*	Institute
Henry Taylor Meyer,	*Rebersburg.*	No. 15½ West Wing
Harry Lyman Miller,	*Wiconisco.*	No. 7, East Wing
Carl Lyon Millward,	*Mt. Pleasant.*	No. 30, East Wing
Mary Montfort Moll,	*Mahanoy City.*	Institute
Charles Clyde Morrison,	*Mt. Pleasant.*	No. 45, West College
Henry Clay Munro,	*White Hall.*	No. 68, West College
Arthur Irwin Murphy,	*Pittsburg.*	No. 29, West College
Augustus Neill,	*Monongahela.*	No. 18, West College
David Noble, Jr.,	*Brooklyn, N. Y.*	No. 4, East Wing
James Theodore Park,	*Montandon.*	Montandon

NAME.	RESIDENCE.	ROOM.
Daisy Van Syckel Parsons,	*Canton.*	Institute
Homer Derial Pease,	*Scranton.*	No. 27, West Wing
Benjamin Earl Phillips,	*Brinkerton.*	No. 19, East Wing
William Wallace Portser,	*Greensburg.*	No. 24, West College
Thomas Benjamin Powell,	*Scranton.*	No. 11, West Wing
Helen Elizabeth Rickabaugh,	*Altoona.*	Institute
Edwin Warren Rumsey,	*Lewisburg.*	South Seventh Street
Mary Elizabeth Seaman,	*Allentown.*	Institute
Penrose Herr Shelley,	*Port Royal.*	No. 3, West Wing
Horace Jones Sheppard,	*Cedarville, N. J.*	No. 2, East Wing
James Leigh Shields,	*Lewisburg.*	North First Street
Frank Carrier Shirley,	*Clarion.*	No. 85, West College
John Daniel Peck Smithgall,	*Trout Run.*	No. 25, West College
Lucretia Garfield Snyder,	*Dunmore.*	Institute
Dickson Shaw Stauffer,	*Mt. Pleasant.*	No. 3, East Wing
Harry Thomas Stevenson,	*Sharon.*	No. 26, West College
Frank Laton Stewart,	*Vandergrift.*	No. 30, West Wing
Alfred Loomis Taylor,	*Irwin.*	No. 89, West College
Charles Howard Taylor,	*Irwin.*	No. 89, West College
James Slifer Thatcher,	*Lewisburg.*	No. 3, West Wing
Edward Dwight Thomas,	*Lansford.*	No. 33, West College

NAME.	RESIDENCE.	ROOM.
ARDIS CLAIR THOMPSON,	*Franklin.*	South Third Street
SARAH ELLA UNGER,	*Union Corner.*	Institute
ABRAHAM PIERCE WALTZ,	*Elimsport.*	No. 8, West Wing
COURTNEY A. WHEELER,	*Titusville.*	No. 19, East Wing
GEORGE LIDY WHITAKER,	*Curwensville.*	No. 18, West Wing
ATHOL VERN WISE,	*New Millport.*	No. 19, West Wing
CHESTER LYLE WYNNE,	*Warwick.*	No. 93, West College
CARL SHULTZ YINGLING,	*Jersey City, N. J.*	No. 21, East Wing
FRANK LANDIS YOST,	*Lock Haven.*	No. 92, West Wing

SOPHOMORES, 91.

THE FRESHMAN CLASS.

CLASS OF 1907.

NAME.	RESIDENCE.	ROOM.
HOMER HASTINGS ADAMS,	*Grange.*	No. 29, East Wing
ANNA MERTIE ALEXANDER,	*Marietta.*	South Sixth Street
PERCY CHESTER ANDREWS,	*New Bethlehem.*	No. 41, West College
CARLETON GILFILEN APP,	*Lewisburg.*	South Fourth Street
WENDELL MCMINN AUGUST,	*Brockwayville.*	No. 12, West College
CHARLES DARCIE BAER,	*Connellsville.*	No. 37, West College
JOHN MICHAEL BANZHAF,	*Muncy.*	South Sixth Street

NAME.	RESIDENCE.	ROOM.
CLARENCE ANTHONY BERNARD,	*Hoyt.*	No. 16, East Wing
FRED WEBER BILGER,	*Curwensville.*	No. 18, West Wing
CLARA BLACK,	*Union City.*	South Fifth Street
FREDERIC RUSSELL BOWER,	*Lewisburg.*	South Sixth Street
WALTER BURNETTE BRINKER,	*Mt. Pleasant.*	No. 27, East Wing
CHAUNCEY EUGENE BROCKWAY,	*Sharon.*	No. 38, West College
ERNEST SABIN BURROWS,	*Picture Rocks.*	No. 78, West College
PETER GARFIELD COBER,	*Pine Hill.*	No. 22, East Wing
MURRAY ALVIN COLLINS,	*Allenwood.*	No. 43, West College
MALCOM PURDY DAVIS,	*Allenwood.*	No. 28, West Wing
VERA ELLICE DUNCAN,	*Cross Fork.*	Institute
RALPH B. EBBERT,	*Milton.*	Milton
WILLIAM WEBSTER EISTER,	*Sunbury.*	Sunbury
JAMES ELLIOT, JR.,	*Chestnut Hill.*	No. 73, West College
WILLIAM FREDERIC ELSESSER,	*Philadelphia.*	No. 27, West Wing
GORDON EVANS,	*Scranton.*	No. 22, West Wing
ELLISON MCLEAN FASSETT,	*Canton.*	No. 19, West Wing
BOYD MORSE FRYMIRE,	*Watsontown.*	Watsontown
MABEL C. GIBSON,	*Ulysses.*	South Sixth Street
MABEL ELIZABETH GLEASON,	*Canton.*	Institute
CHESTER HAROLD GODSHALL,	*Philadelphia.*	No. 78, West Wing

NAME.	RESIDENCE.	ROOM.
HAVARD GRIFFITH,	*Wayne.*	No. 8, West Wing
CHARLES GRIMMINGER,	*Altoona.*	No. 12, East Wing
WILSON GROOVER,	*Lewisburg.*	Lewisburg
HORACE LEROY HALL,	*Sharon.*	No. 16, West College
SPENSER TILLINGHAST HARRIS,	*Lewisburg.*	University Avenue
GEORGE WILLIAM HAWK,	*Tower City.*	No. 44, West College
F. LUTHER HEINZE,	*Ashland.*	No. 12, East Wing
HOMER WILBERT HENDERSON,	*Day.*	No. 22, East Wing
AMMON GROSS HESS,	*Manheim.*	No. 5, East Wing
WALTER BUDD HILTON,	*Philadelphia.*	South Fifth Street
WILLIAM DUDLEY HINMAN,	*Monroeton*	No. 15, East Wing
COIT ROSCOE HOECHST,	*East Berlin.*	No. 28, East Wing
THEODORE BLAND HOY,	*Montandon.*	Montandon
ELKANAH HULLEY,	*Chester.*	No. 32, West Wing
FRANK WILLIAM HUTCHISON,	*New Bethlehem.*	No. 40, West College
ESTELLA BELLE JOHNSON,	*Emlenton.*	Institute
RUTH CUSHMAN JONES,	*Mahanoy City.*	Institute
KATHRYN MAY KING,	*Reynoldsville.*	Institute
LULU ETHEL KLINE,	*Winfield.*	Winfield
PAUL LEVAN KNORR,	*Lewisburg.*	South Third Street
FRANK JOSEPH KRAEMER,	*Frackville.*	No. 18, East Wing

NAME.	RESIDENCE.	ROOM.
GEORGE WASHINGTON LEACH,	*New Bethlehem.*	No. 42, West College
CHARLES AUSTIN LEMMON,	*Honey Brook.*	No. 31, East Wing
ONA ESTELLE LILLIBRIDGE,	*Coudersport.*	Institute
THOMAS BEEBER LOCKARD,	*Montoursville.*	No. 6, West Wing
CLARENCE EDWARD LONG,	*Shippensburg.*	No. 5, West Wing
ESAU HERBERT LOOMIS	*Wilmington, Del.*	No. 29, West Wing
JOHN OGDEN LUMMIS,	*Bridgeton, N. J.*	No. 29, East Wing
FRED MANKEY,	*Williamsport.*	Williamsport
LAWRENCE OSCAR MANLEY,	*Canton.*	No. 16, East Wing
NORMAN EDWARD MCCALL,	*Falls Creek.*	No. 23, East Wing
ANNA L. MCGINNIS,	*Eleven Mile.*	South Fourth Street
ARTHUR EVRIL MCNINCH,	*Lewisburg.*	South Second Street
CHARLES MEADEN MILLER,	*Mayfield.*	No. 25, East Wing
JOHN LAMBERT MINOR,	*Kittanning.*	No. 21, East Wing
MARGARET EMMA MYERS,	*Williamsport.*	South First Street
CALVIN OBERDORF,	*Sunbury.*	Sunbury
URSULA DAWES PARMLEY,	*Mahanoy City.*	Institute
WARREN HARPER PETTEBONE,	*Dorranceton.*	No. 6, West College
IRA EDWIN PETERSON,	*Millville, N. J.*	No. 5, West Wing
CHARLES FRANCIS POTTER,	*Marlboro, Mass.*	No. 4, West Wing
WILLIAM WESLEY RAKER,	*Trout Run.*	No. 27, East Wing

NAME.	RESIDENCE.	ROOM.
Carolyn M. Reeb,	*Slate Run.*	Institute
Harry Delroy Reese,	*Lairdsville.*	No. 14, West Wing
Harry Sine Rice, Jr.,	*Siegfried.*	South Third Street
George A. Riggs,	*New Brighton.*	No. 24, East Wing
Leo Lawrence Rockwell,	*Monroeton.*	No. 15, East Wing
Elizabeth Mae Roberts,	*Cochranton.*	South Third Street
Lewis Roberts,	*Frackville.*	No. 8, East Wing
Margaret Adalia Rowlands,	*Homestead.*	Institute
Edwin Wilde Saylor,	*Philadelphia.*	No. 7, West Wing
Marion Ellsworth Sayre,	*New Brighton.*	No. 14, East Wing
Jacob Harry Schuch,	*Cogan Station.*	No. 6, West Wing
Thomas Wayne Schultz,	*Pennsdale.*	South Seventh Street
William Joseph Schultz,	*Pennsdale.*	South Seventh Street
Fred Raymond Schweitzer,	*Trevorton.*	No. 66, West College
Frank Henry Schweitzer,	*Trevorton.*	No. 67, West College
James Wesley Shipe,	*Sunbury.*	Sunbury
F. Rebecca Shove,	*Wellsboro.*	Institute
Howard Siegfried,	*Hughesville.*	No. 31, East Wing
Lila Mabel Sill,	*Bradford.*	South Third Street
Robert Jacobi Simington,	*Mooresburg.*	No. 80, West College
Frank Smigelsky,	*Mt. Carmel.*	No. 16½, East Wing

NAME.	RESIDENCE.	ROOM.
SYDNEY HOMER SMITH,	*Turbotville.*	No. 17, East Wing
HARRY GARFIELD SNAVELY,	*Enhaut.*	No. 74, West College
EDISON ARIO STEINMETZ,	*Centralia.*	No. 21, West Wing
WILLIAM RANKIN STEVENSON,	*Pittsburg.*	No. 36, West College
PAUL GEORGE STOLZ,	*Philadelphia.*	No. 26, East Wing
REINHOLD STOLZ,	*Philadelphia.*	No. 26, East Wing
JOHN HOWARD STOVER,	*Altoona.*	South Third Street
JOHN D. STRAIN,	*Philadelphia.*	South Fifth Street
HOWARD GEORGE WASCHER,	*Frackville.*	No. 18, East Wing
GUY LAWRENCE WEBSTER,	*Vienna, Md.*	No. 63, West College
MARY SABINE WEDDLE,	*West Newton.*	Institute
JOSEPH NELSON WEDDLE, JR.,	*West Newton.*	No. 19, West College
MELLIE ARMSTRONG WESTCOTT,	*Camden, N. J.*	Institute
ALFRED MATTHEWS WHITBY,	*Pittsburg.*	No. 24, East Wing
EARL WAYNE WHITNEY,	*Wellsboro.*	No. 24½, East Wing
WILLIAM HORATIO WIGNALL,	*Mayfield.*	No. 25, East Wing
FRANCES ESTELLE WILLIAMS,	*Olyphant.*	South Fifth Street
CECIL MEREDITH WINBIGLER,	*Washington, D. C.*	No. 7, West College
RALPH EMERSON WINBIGLER,	*Washington, D. C.*	No. 8, West College
JONATHAN WOLFE,	*Lewisburg.*	St. George Street

FRESHMEN, 111.

PURSUING SPECIAL STUDIES.

NAME.	RESIDENCE.	ROOM.
Marie Atkinson,	*Lewisburg.*	South Sixth Street
Ella Beale,	*Pelham Manor, N. Y.*	Lewisburg
Lillian Beale,	*Philadelphia.*	Lewisburg
Elbina Lavinia Bender,	*Lewisburg.*	North Fifth Street
John H. V. Brown,	*Reading.*	No. 77, West College
Harry Wilson Bovard,	*Kittanning.*	No. 77, West College
Charles David Cooper,	*Adamstown.*	No. 8½, East Wing
William L. Donehower,	*Lewisburg.*	Market Street
Edwin Wingert Gundy,	*Lewisburg.*	South River Road
Mary Heiser,	*Lewisburg.*	Market Street
William Currie Hulley,	*Lewisburg.*	South Fourth Street
Addie Ellen Johnston,	*Scotch Plains, N. J.*	Institute
William Carpenter Kelly,	*Lewisburg.*	Market Street
Harry Baine Magee,	*Clarion.*	No. 22, West College
George Mattis,	*Millersburg.*	No. 67, West College
Carrie May McCaskie,	*Short Hills, N. J.*	Institute
Arthur Judson Pearse,	*Ashtabula, Ohio.*	No. 48, West College
Maud Rees,	*Philadelphia.*	Institute
Frederick A. Riegel,	*Lehighton.*	No. 30, West College
Gertrude Stannert,	*Lewisburg.*	Market Street

NAME.	RESIDENCE.	ROOM.
Wilson Willard Staver,	*Williamsport.*	Williamsport
Lewis Albright Wanner,	*Fleetwood.*	No. 11, West College
Fred Russell Zugschwert,	*Carnegie.*	No. 32, West Wing

SPECIALS, 22.

SUMMARY.

Graduate Students	97
The Senior Class	55
The Junior Class	76
The Sophomore Class	91
The Freshman Class	111
Pursuing Select Studies	22
Total in College	452

Admission.

TO FRESHMAN STANDING.

EXAMINATIONS.

Examinations for admission to the Freshman Class will be held on Monday of Commencement week. Candidates will assemble in Bucknell Hall at 8.30 A. M.

Similar examinations are also held on the day preceding the opening of each term. In special cases candidates may be examined and admitted at other times in the year.

There must be furnished to the President by the candidate satisfactory testimonials of good moral character, and, if from another college, a certificate of honorable dismission must be presented.

The required age for admission to the Freshman Class is fifteen years.

I. GENERAL REQUIREMENTS.

Candidates for admission to any of the courses must pass examinations in the following:

1. English.

a. Writing from dictation.

b. English Grammar.

c. Elements of Rhetoric—Invention, Style, and Punctuation.

d. A brief composition upon a subject assigned at the time of the examination. No candidate will be accepted in English whose work is notably defective in spelling, punctuation, idiom, or division into paragraphs.

e. **Reading.**—A certain number of books are set for reading. The candidate will be required to present evidence of a general knowledge of the subject matter, and to answer simple questions on the lives of the authors. The form of examination will usually be the writing of a paragraph or two on each of several topics, to be chosen by the candidate from a considerable number—perhaps ten or fifteen—set before him in the examination paper. The treatment of these topics is designed to test the candidate's power of clear and accurate expression, and will call for only a general knowledge of the substance of the books. In place of a part or the whole of this test, the

candidate may present an exercise book, properly certified by his instructor, containing compositions or other written work done in connection with the reading of the books. In preparation for this part of the requirement, it is important that the candidate shall have been instructed in the fundamental principles of Rhetoric.

In 1904 and 1905: Shakspere's Merchant of Venice and Julius Cæsar, the Sir Roger De Coverley Papers in the Spectator, Goldsmith's Vicar of Wakefield, Coleridge's Ancient Mariner, Scott's Ivanhoe, Carlyle's Essay on Burns, Tennyson's Princess, Lowell's Vision of Sir Launfal, and George Elliot's Silas Marner.

f. **Study and Practice.**—This part of the examination presupposes the thorough study of each of the works named below. The examination will be upon subject-matter, form and structure.

The books set for this part of the examination will be:

In 1904 and 1905: Shakspere's Macbeth, Milton's Lycidas, Comus, L'Allegro, and Penseroso, Burke's Speech on Conciliation with America, and Macaulay's Essays on Milton and Addison.

The candidate is encouraged to do reading parallel and subsidiary to the books mentioned above; he is recommended to commit to memory as much English poetry as possible, and to pay close attention to the essentials of Grammar.

2. Mathematics.

a. Arithmetic, including the Metric System;

b. Algebra, including Quadratic Equations. The requirements in this study are intended to include the treatment of Radicals.

c. Plane Geometry as in Wentworth.

3. Latin.

a. Latin Grammar,—Allen and Greenough's, Harkness', or Bennett's;

b. Latin Prose Composition;

c. Four Books of Cæsar's Commentaries.

4. History.

a. History of Greece;

b. History of Rome;

c. History of the United States.

5. Science.

a. Physiology;

b. Physics;

c. Geography—Descriptive and Political, and Physical.

6. Free-hand Drawing.

II. PARTICULAR REQUIREMENTS.

A. To enter the Classical Course, the candidate, in addition to the General Requirements, must pass examinations in the following:

1. Greek.
   - *a.* Greek Grammar—Hadley and Allen's or Goodwin's;
   - *b.* The equivalent of Jones' Greek Prose Composition—(20 lessons);
   - *c.* Greek Reader;
   - *d.* Four Books of Xenophon's Anabasis;
   - *e.* Three Books of Homer's Iliad.

2. Latin.
   - *a.* Seven Orations of Cicero;
   - *b.* Six Books of the Æneid.

B. To enter the Latin division of the Philosophical Course, or the Course in Jurisprudence, the candidate, in addition to the General Requirements, must pass examination in the following:

1. Latin.
   - *a.* Seven Orations of Cicero;
   - *b.* Six Books of the Æneid.

2. Any six units selected from group F.

C. To enter the Greek division of the Philosophical Course, the candidate, in addition to the General Requirements, must pass examination in the following:

1. Greek.
   - *a.* Greek Grammar—Hadley and Allen's or Goodwin's;
   - *b.* The equivalent of Jones' Greek Prose Composition—(20 lessons);
   - *c.* Greek Reader;
   - *d.* Four Books of Xenophon's Anabasis;
   - *e.* Three Books of Homer's Iliad.

2. Any six units selected from Group F.

D. To enter the General Science Course, the Course in Biology, or the Course in Chemistry, the candidate in addition to the General Requirements, must pass examination in the following:

1. German or French.

   The Grammar of the Language, Composition, and Translation at sight of easy prose.

2. Any nine units selected from Group F.

E. To enter the Course in Civil Engineering, the candidate, in addition to the General Requirements, must pass examination in the following:

1. German or French.

The Grammar of the Language, Composition, and Translation at sight of easy prose.

2. Solid Geometry.

3. Any eight units selected from Group F.

F. Candidates for admission to the Philosophical Course or to the Scientific Course must present in the case of the former, six units, in case of the later, nine units, and candidates for the Course in Civil Engineering, eight units, selected from the following:

English Literature as in Pancoast; History of Modern Europe as in Myers' General History; History of England as in Gardiner; Civics as in Macy; Zoology as in Packard's Elements; Physiography as in Davis; Botany as in Gray; Geology as in Le Conte's Elements; Astronomy as in Young's Lessons; Solid Geometry; Chemistry with Laboratory practice; French (three units); German (three units).

The time requirement for a unit is five hours a week for a term of twelve weeks.

Satisfactory equivalents for the text-books named will be accepted.

ADMISSION ON CERTIFICATE.

Graduates of Bucknell Institute, in any of the Courses will be admitted to the Sophomore year of the corresponding Course in the College.

Graduates from Bucknell Academy, in any of the Courses, will be admitted to the corresponding Courses in the College upon the Diploma of the Academy.

Graduates of Pennsylvania State Normal Schools are admitted to the General Science Course without examination.

Certificates of the *College Entrance Examination Board* are accepted for admission, and also certificates of the State Board for Examination of Candidates for registration as Students of Law.

Students who have completed a course of study in **Preparatory and High Schools** of superior standing may be admitted upon the certificate of the Principal of the school from which they come without examination upon the subjects specified in the certificate.

All students received upon certificate are regarded as in conditional standing, and will not be matriculated unless their work during

the first ten weeks of the term show that their preparation has been sufficiently thorough.

SPECIAL STUDENTS.

Students who do not desire to take a full regular course can enter and select special shorter courses with the sanction of the Faculty; but in all cases, satisfactory examinations must be passed upon the subjects required for admission to the Freshman Class of the Course from which they intend to select.

ADVANCED STANDING.

I. General Requirements. A proportionate increase of age is required for admission to advanced classes over that required for admission to Freshman standing. Other general requirements are the same as for admission to the Freshman Class.

II. Particular Requirements. Candidates for admission to advanced classes are examined both as for admission to Freshman standing and also on the studies that have been pursued by the class which they desire to enter.

MATRICULATION.

Matriculation gives membership in the College and is a condition precedent to all degrees and honors as well as to honorable dismission. No student is admitted to matriculation until he has shown by his classwork during at least ten weeks and by his deportment that he is worthy of membership in the College.

HONORABLE DISMISSION.

No person will be dismissed from the College as in good standing who leaves it while under censure; and papers of dismission given to those leaving while under a condition shall either be given as of a date anterior to the term during which that condition was incurred, or shall distinctly mention the condition; nor will honorable dismission be granted to any student who has not discharged all his pecuniary obligations to the institution.

No certificate or statement as to work done in his department is granted by any professor or instructor to an undergraduate.

COURSES OF STUDY.

The Bucknell College offers four Courses of study leading to degrees in Arts, Philosophy, and Science. Each of the Courses extends through four years. For the Bachelor's degree, thirty-six courses, each of one term five hours a week must be presented, as well as the prescribed work in oral and written Expression, the former of which extends through two years of the course and the latter through four years.

I. The Classical Course, leading to the degree of Bachelor of Arts, aims to furnish a liberal education in classical and modern Literature, in the Sciences and Arts. Candidates for the degree of Bachelor of Arts must present at least three courses in German and French.

II. The Philosophical Course, with Latin or Greek in each of its two divisions, aims to furnish a thorough training in advanced studies to those who desire to pursue but one of the Ancient Languages. Those who have completed the studies of the Course, including not less than four courses of German and French, are admitted to the degree of Bachelor of Philosophy. But a candidate who offers eight College courses in either of the Ancient Classical languages may receive the degree of Bachelor of Arts.

III. The General Science Course, leading to the degree of Bachelor of Science, is substantially the same as the Philosophical Course, with the substitution of additional Modern Language and Scientific Studies for Latin and Greek. Candidates for the degree of Bachelor of Science must present at least one year of German or French for admission and at least four courses of college work in German and French as requisites for graduation.

IV. The Course in Jurisprudence, leading to the Degree of Bachelor of Arts covers four years of work in Law, Political Science, Economics, Philosophy, Literature and Mathematics. No one is graduated from this Course if his average standing for the Course is below nine.

V. The Course in Biology, leading to the Degree of Bachelor of Science in Biology covers four years of work in Biology, Chemistry, Physics, Mathematics, and Literature. No one is admitted to the Degree of Bachelor of Science in Biology, if his average standing for the Course is below nine.

VI. The Course in Chemistry, leading to the Degree of Bachelor of Science in Chemistry covers four years of work in Chemistry, Physics, Mathematics, Biology, and Literature. No one is admitted to the Degree of Bachelor of Science in Chemistry, if his average standing for the Course is below nine.

The requirements in Modern Language are the same for the Course in Jurisprudence as for the Philosophical Course, and for the Course in Biology, and for that in Chemistry they are the same as for the Course in General Science.

VII. The Course in Civil Engineering, leading to the degree of Bachelor of Science in Civil Engineering, covers four years of work in Pure and Applied Mathematics, Chemistry, and Technology. No one is admitted to the Degree of Bachelor of Science in Civil Engineering if his average standing for the Course is below nine.

VIII. Advanced Courses in Literature, Philosophy, and Science have been established, leading to the degree of Master of Arts, or Master of Science.

The Master's degree is conferred only on condition that the candidate has completed a Course of Liberal study, approved by the Faculty, sufficient in amount to constitute a fifth year of college work. Particulars may be learned by addressing the President.

Curricula.

1. THE CLASSICAL COURSE.

Leading to the Degree of Bachelor of Arts.

FRESHMAN YEAR.

I. Term—
- Geometry, Rhetoric,
- Algebra, Oratory.
- Cicero de Senectute and Livy,
- Odyssey,
- Greek Prose Composition,

II. Term—
- Algebra, Rhetoric,
- Plane Trigonometry, Oratory.
- Livy,
- Lysias' Orations,
- Greek Testament,

III. Term—
- Spherical Trigonometry, Rhetoric,
- Analytical Geometry, Oratory.
- Velleius and Pliny,
- Plato's Apology,
- Greek Testament,

SOPHOMORE YEAR.

I. Term—Rhetoric, Linear Perspective,
Horace, Oratory.
Greek History,
Chemistry, or *Surveying,*

II. Term—English Literature, Astronomy,
Demosthenes, Oratory.

Elective Studies:

Roman History, *Chemistry,* 2,
Latin, 6, *Differential Calculus,*
Logic, *Physiology.*

III. Term—German, History of Art.

Elective Studies:

English Oratory,
Oratorical Delivery,
Juvenal,
American Civics,
Anthropology,
Botany,
Chemistry, 3,
Integral Calculus,
Elements of Law.

JUNIOR YEAR.

I. Term—Psychology, Greek Literature,
French, Thesis.

Elective Studies:

Æschylus and Sophocles,
Latin, 8,
English, 6 *or* 7,
German,
Spanish,
History, 9,
History, 8,
Sociology,
Physiological Psychology,
Biology,
Embryology,
Sanitary Science,
Chemistry, 4,
Higher Analytics,
Mechanics,
Geology.

II. Term—Ethics, Geology,
History of Philosophy, Thesis.

Elective Studies:

Euripides,
Latin Poets,
German,
French,
Spanish,
English Bible,
History, 10,
History of Art,
Railroad Transportation,
Physics.
Advanced Logic,
Advanced Composition,
Comparative Psychology,
Zoölogy of Invertebrates,
Animal Histology,
Human Anatomy,
Chemistry, 5,
English, 8,
Mathematics, 13,

III. Term—Theism, History of Education,
Thesis.

ELECTIVE STUDIES:

Greek, 8,
Greek, 13,
Latin, 9,
Journalism,
German,
French,
Spanish,
English Bible,
Money and Banking,
Zoölogy of Vertebrates,
Cryptogamic Botany,
Bacteriology,
Neurology,
Chemistry, 6,
Astronomy,
Physics.

SENIOR YEAR.

I. TERM—Social Ethics. Thesis.

ELECTIVE STUDIES:

Greek Testament,
Latin, 10,
Anglo-Saxon,
English, 4 *or* 9,
German,
Medieval History,
International Law,
Comparative Anatomy,
Chemistry, 7,
Geology,
Geodetic Astronomy.

II. TERM—Political Ethics, Thesis.

ELECTIVE STUDIES:

Demosthenes de Corona,
Greek Testament,
Latin, 11,
Roman Life,
Chaucer,
French,
Philosophy of Mind,
History of Europe,
Economics,
Municipal Government,
Chemistry, 8,
Economic Geology.

III. TERM—Literature, Thesis.

ELECTIVE STUDIES:

Plato. Phaedo,
Greek Testament,
Latin, 12,
German,
Shakspere,
Metaphysics,
History of Europe,
Comparative Politics,
Constitutional Law,
Roman Law,
Private Corporations,
Public Finance,
Chemistry, 9.

Seniors may take any of the Electives of the Junior Year for corresponding terms.

II. THE PHILOSOPHICAL COURSE.

Leading to the Degree of Bachelor of Philosophy.

A. Latin Division.

FRESHMAN YEAR.

I. Term— { Geometry, Algebra, Cicero de Senectute and Livy, German, } Rhetoric, Oratory

II. Term— { Algebra, Plane Trigonometry, Livy, German, } Rhetoric, Oratory.

III. Term— { Spherical Trigonometry, Analytical Geometry, Velleius and Pliny, French, } Rhetoric, Oratory.

SOPHOMORE YEAR.

I. Term—Rhetoric, Horace, *German,* or *Greek History,* or *Chemistry,* 1, or *Surveying,* Linear Perspective, Oratory.

II. Term—English Literature, Astronomy. Oratory.

Elective Studies:

Roman History, *Latin,* 6, *German,* *French,* *Physiology,* *Chemistry,* 2, *Differential Calculus,* *Logic.*

III. Term—American Civics, History of Art.

ELECTIVE STUDIES:

English Oratory,
Oratorical Delivery,
Juvenal,
German,
French,
Anthropology,
Elementary Law,
Botany,
Chemistry, 3,
Integral Calculus.

JUNIOR YEAR.

I. TERM—Psychology, Greek Literature,
Thesis.

ELECTIVE STUDIES:

Latin, 8,
German,
French,
Spanish,
English, 6 *or* 7,
History, 9,
History, 8,
Sociology,
Physiological Psychology,
Biology,
Embryology,
Sanitary Science,
Chemistry, 4,
Higher Analytics,
Mechanics.

II. TERM—Ethics, Geology,
History of Philosophy, Thesis.

ELECTIVE STUDIES:

Latin Poets,
English, 8,
German,
French,
Spanish,
English Bible,
History, 10,
Railroad Transportation,
Advanced Logic.
Advanced Composition,
Comparative Psychology,
Zoölogy of Invertebrates,
Animal Histology,
Human Anatomy,
Chemistry, 5,
Mathematics, 13,
Physics,

III. TERM—Theism, History of Education,
Thesis.

ELECTIVE STUDIES:

Greek, 8,
Latin, 9,
Journalism,
German,
French,
Spanish,
English Bible,
Money and Banking,
Cryptogamic Botany,
Zoölogy of Vertebrates,
Bacteriology,
Neurology,
Chemistry, 6,
Astronomy,
Physics.

SENIOR YEAR.

I. TERM—Social Ethics, Thesis.

ELECTIVE STUDIES:

Latin, 10,
German,
Anglo-Saxon,
English, 4 *or* 9,
Medieval History,
International Law,
Comparative Anatomy,
Chemistry, 7,
Geology,
Geodetic Astronomy.

II. TERM—Political Ethics, Thesis.

ELECTIVE STUDIES:

Latin, 11,
Chaucer,
German,
French,
Philosophy of Mind,
Economic Geology.
History of Europe,
Roman Life,
Economics,
Municipal Government,
Chemistry, 8,

III. TERM—Literature, Thesis.

ELECTIVE STUDIES:

Latin, 12,
German,
Shakspere,
Metaphysics,
History of Europe,
Comparative Politics,
Constitutional Law,
Roman Law,
Private Corporations,
Public Finances,
Chemistry, 9.

Seniors may take any of the Electives of the Junior Year for corresponding terms.

THE PHILOSOPHICAL COURSE.

B. Greek Division.

FRESHMAN YEAR.

I. Term— Geometry, Algebra, Odyssey, German, — Rhetoric, Oratory.

II. Term— Algebra, Plane Trigonometry, Lysias' Orations, Greek Testament, German, — Rhetoric, Oratory.

III. Term— Spherical Trigonometry, Analytical Geometry, Plato's Apology, Greek Testament, French, — Rhetoric, Oratory.

SOPHOMORE YEAR.

I. Term— Rhetoric, Greek History, *German*, or, *Chemistry, Course* 1, or Surveying, — Linear Perspective, Oratory.

II. Term— English Literature, Demosthenes, — Astronomy, Oratory.

Elective Studies:

German, *French,* *Roman History,* *Logic.* — *Physiology,* *Chemistry, Course* 2, *Differential Calculus,*

III. Term— American Civics, — History of Art.

Electives:

English Oratory, *Oratorical Delivery,* *German,* *French,* *Anthropology.* — *Elements of Law,* *Botany,* *Chemistry,* 3, *Integral Calculus,*

JUNIOR YEAR.

I. Term—Psychology, Greek Literature,
Thesis.

Elective Studies:

Æschylus and Sophocles,
German,
French,
Spanish,
English, 6 *or* 7,
History, 9,
History, 8,
Sociology,
Physiological Psychology,
Biology,
Embryology,
Sanitary Science,
Chemistry, 4,
Higher Analytics,
Mechanics.

II. Term—Ethics, Geology,
History of Philosophy, Thesis.

Elective Studies:

Euripides,
German,
French,
Spanish,
English, 8,
English Bible,
History, 10,
Railroad Transportation,
Physics.
Advanced Logic,
Advanced Composition,
Comparative Psychology,
Zoölogy of Invertebrates,
Animal Histology,
Human Anatomy,
Chemistry, 5,
Mathematics, 13,

III. Term—Theism, History of Education.
Thesis.

Elective Studies:

Greek, 8,
Greek, 13,
Journalism,
German,
French,
Spanish,
English Bible,
Physics.
Money and Banking,
Zoölogy of Vertebrates,
Cryptogamic Botany,
Bacteriology,
Neurology,
Chemistry, 6,
Astronomy,

SENIOR YEAR.

I. Term—Social Ethics, Thesis.

Elective Studies:

Greek Testament,
English, 4 or 9,
Anglo-Saxon,
German,
Medieval History,
International Law,
Comparative Anatomy,
Chemistry, 7,
Geology,
Geodetic Astronomy.

II. Term—Political Ethics, Thesis.

Elective Studies:

Demosthenes de Corona,
Greek Testament,
Chaucer,
French,
Philosophy of Mind,
History of Europe,
Roman Life,
Economics,
Municipal Government,
Chemistry, 8,
Economic Geology.

III. Term—Literature, Thesis.

Elective Studies:

Plato's Phaedo,
Greek Testament,
German,
Shakspere,
Metaphysics,
History of Europe,
Comparative Politics,
Constitutional Law,
Roman Law,
Private Corporations,
Public Finance,
Chemistry, 9.

Seniors may take any of the Electives of the Junior Year for corresponding terms.

III. THE GENERAL SCIENCE COURSE.

Leading to the Degree of Bachelor of Science.

FRESHMAN YEAR.

I. Term— { Geometry, Algebra, Latin, German, II, Rhetoric, Oratory.

II. TERM— Algebra, Plane Trigonometry, Latin, German, II, Rhetoric, Oratory,

III. TERM— Spherical Trigonometry, Analytical Geometry, Latin, French, Rhetoric. Oratory.

SOPHOMORE YEAR.

I. TERM—Rhetoric, Linear Perspective, Oratory.

ELECTIVE STUDIES:

Chemistry, 1, *Horace, German, Greek History, Surveying.*

II. TERM—English Literature, Oratory. Astronomy,

ELECTIVE STUDIES:

German, French, Roman History, Logic. Physiology, Chemistry, 2, *Differential Calculus,*

III. TERM—American Civics, History of Art.

ELECTIVE STUDIES:

English Oratory, Oratorical Delivery, Juvenal, German, French, Elements of Law, Anthropology, Botany, Chemistry, 3, *Integral Calculus.*

JUNIOR YEAR.

I. TERM—Psychology, Thesis. Greek Literature,

ELECTIVE STUDIES:

English, 6 *or* 7,
German,
French,
Spanish,
History, 9,
History, 8,
Sociology,
Physiological Psychology,
Zoölogy of Invertebrates.
Embryology,
Sanitary Science,
Chemistry, 4,
Higher Analytics,
Mechanics.

II. TERM—Ethics,
History of Philosophy,
Geology,
Thesis.

ELECTIVE STUDIES:

English, 8,
German,
Spanish,
French,
English Bible,
History, 10,
Railroad Transportation,
Logic,
Advanced Composition,
Comparative Psychology,
Zoölogy of Vertebrates,
Animal Histology,
Human Anatomy,
Chemistry, 5,
Mathematics, 13.
Physics.

III. TERM—Theism,
History of Education,
Thesis.

ELECTIVE STUDIES:

Greek, 8,
Journalism,
German,
French,
Spanish,
English Bible,
Money and Banking,
Cryptogamic Botany,
Biology,
Bacteriology,
Neurology,
Chemistry, 6,
Astronomy,
Physics.

SENIOR YEAR.

I. TERM—Social Ethics,
Thesis.

ELECTIVE STUDIES:

Anglo-Saxon,
English, 4 *or* 9,
German,
Medieval History,
International Law,
Comparative Anatomy,
Chemistry, 7,
Geology,
Geodetic Astronomy.

II. Term—Political Ethics, Thesis.

Elective Studies:

French,
Chaucer,
Philosophy of Mind,
History of Europe,
Roman Life,
Economics,
Municipal Government,
Chemistry, 8,
Economic Geology.

III. Term—Literature, Thesis.

Elective Studies:

German,
Shakspere,
Metaphysics,
History of Europe,
Comparative Politics,
Constitutional Law,
Roman Law,
Private Corporations,
Public Finance,
Chemistry, 10.

Seniors may take any of the Electives of the Junior Year for corresponding terms.

IV. THE COURSE IN JURISPRUDENCE.

Leading to the Degree of Bachelor of Arts.

FRESHMAN YEAR.

I. Term—Geometry, Algebra, Cicero de Senectute and Livy, Odyssey, Greek Prose Composition, or German, Rhetoric, Oratory.

II. Term—Plane Trigonometry, Algebra, Livy, Lysias' Orations, Greek Testament, German, Rhetoric, Oratory.

III. Term— Constitution of Pennsylvania, Rhetoric,
Velleius and Pliny, Oratory.
{ Plato's Apology,
{ Greek Testament, or
French,

SOPHOMORE YEAR.

I. Term—Rhetoric, Political Science,
Horace, Oratory.

Elective Studies:

Greek History, *Surveying,*
American Colonial History, *Chemistry,*
German.

II. Term—English Literature, Political Science,
Logic, Oratory.

Elective Studies:

Demosthenes, *American Constitutional History,*
Quintilian, *German,*
Roman History, *French,*

III. Term—Elements of Law, Political Science.
American Constitutional Law,

Elective Studies:

American Civics, *Argumentation,*
Juvenal, *Oratorical Delivery,*
English Oratory, *German or French.*

JUNIOR YEAR.

I. Term—Psychology, Blackstone B. I.
Economics, Thesis.

Elective Studies:

Real Property, Blackstone B. II.,
Constitutional Limitations, *Greek Tragedy,*
English History, *English Literature,*
Sociology, *Modern Language.*

II. Term—Ethics, Blackstone, B. III.,
Money and Banking, Thesis.

Elective Studies:

Personal Property, *English Bible,*
Public Finance, *Greek,*
Logic, Course 2, *Latin,*
Advanced Composition, *English Literature,*
Modern Language.

III. Term—Theism, Blackstone, B. IV.,
Private Corporations, Thesis.

Elective Studies:

Equity, *Greek,*
Railroad Transportation, *Latin,*
English Bible, *Modern Language.*

THE SENIOR YEAR.

I. Term—International Law, Social Ethics,
Thesis.

Elective Studies:

Contracts, *English Literature,* 4 *or* 9,
Medieval History, *Latin,*
Anglo-Saxon, *Modern Language.*

II. Term—Comparative Constitutional Law, Political Ethics,
Thesis.

Elective Studies:

Evidence, *Demosthenes de Corona,*
Municipal Government, *Latin,* II,
History of Modern Europe, *Chaucer,*
Philosophy of Mind, *Modern Language.*

III. Term—Roman Law, Literature,
Thesis.

Elective Studies:

Pleading, *Plato's Phaedo,*
Metaphysics, *Latin,* 12,
Shakspere, *Modern Language.*

Seniors may take any of the Electives of the Junior Year for corresponding terms.

V. THE COURSE IN BIOLOGY.

Leading to the Degree of Bachelor of Science in Biology.

THE FRESHMAN YEAR.

I. Term— Geometry, Algebra, General Chemistry, *Latin* or *German,* II, — Rhetoric, Oratory.

II. Term— Algebra, Trigonometry, Qualitative Chemistry, *Latin* or *German,* II, — Rhetoric, Oratory.

III. Term— Botany, Quantitative Chemistry, *Latin* or *French,* — Rhetoric, Oratory.

THE SOPHOMORE YEAR.

I. Term—Biology, Organic Chemistry, Rhetoric, — Drawing, Oratory.

II. Term—Invertebrate Zoölogy, Physiology, — Drawing, Oratory.

Elective Studies:

Organic Analysis, History, — *English Literature, Modern Language.*

III. Term—Vertebrate Zoölogy, Cryptogamic Botany, — Drawing.

Elective Studies:

Agricultural Chemistry, Anthropology, Modern Language. — *Civics, English Literature.*

THE JUNIOR YEAR.

I. Term—Psychology, Laboratory Physiology, Mechanics, Scientific German, Thesis.

II. Term—Comparative Psychology, Physics, Scientific German, Thesis.

Elective Studies:

Sanitary Science, History, Modern Language. *Ethics, Literature,*

III. Term—Entomology, Physics, Scientific German, Thesis.

Elective Studies:

Toxicology, Astronomy, Theism. *English Literature, Modern Language,*

THE SENIOR YEAR.

I. Term—Comparative Osteology, Embryology, Social Ethics, Thesis.

Elective Studies:

Geology, Economics, *History, Modern Language.*

II. Term—Histology, Thesis. Political Ethics,

Elective Studies:

Human Anatomy, Economic Geology, Money and Banking, *History, English Bible, Modern Language.*

III. Term—Neurology, Bacteriology, Forestry, Thesis.

Elective Studies:

Preparation of Compounds, Railroad Transportation, Modern Language. *Literature, English Bible,*

Seniors may take any of the Electives of the Junior Year for corresponding terms.

VI. THE COURSE IN CHEMISTRY.

Leading to the Degree of Bachelor of Science in Chemistry.

THE FRESHMAN YEAR.

I. TERM—Descriptive Chemistry,
Geometry, Algebra, *Latin* or *German*, II, — Rhetoric, Oratory.

II. TERM—Qualitative Chemistry,
Algebra, Trigonometry, *Latin* or *German*, II, — Rhetoric, Oratory.

III. TERM—Quantitative Chemistry,
Trigonometry, Analytical Geometry, *Latin* or *French*, — Rhetoric, Oratory.

THE SOPHOMORE YEAR.

I. TERM—Organic Chemistry, Biology, Rhetoric, — Drawing. Oratory.

II. TERM—Organic Analysis, Invertebrate Zoölogy, — Drawing, Oratory.

ELECTIVE STUDIES:

Physiology, *Differential Calculus*, — *English Literature*, *Modern Language*,

III. TERM—Agricultural Chemistry, Vertebrate Zoölogy, — Drawing.

ELECTIVE STUDIES:

Botany, *Integral Calculus*, *Modern Language*. — *Civics*, *Literature*,

THE JUNIOR YEAR.

I. TERM—Water and Gas Analysis, Mechanics, — Scientific German, Thesis.

ELECTIVE STUDIES:

Psychology, *History,*
Sociology, *Modern Language.*

II. TERM—Metallurgy, Scientific German,
Physics, Thesis.

ELECTIVE STUDIES:

Comparative Psychology, *Ethics,*
Sanitary Science, *History,*
Modern Language.

III. TERM—Toxicology, Scientific German,
Physics, Thesis.

ELECTIVE STUDIES:

Astronomy, *Theism,*
Entomology, *Modern Language.*

THE SENIOR YEAR.

I. TERM—Physical Chemistry, Social Ethics,
Geology, Thesis.

ELECTIVE STUDIES:

Embryology, *History,*
Economics, *Modern Language.*

II. TERM—Electro-Chemistry, Political Ethics,
Thesis.

ELECTIVE STUDIES:

Economic Geology, *History,*
Histology, *Modern Language.*
Money and Banking,

III. TERM—Chemical Preparations, Forestry.

ELECTIVE STUDIES:

Bacteriology, *Railroad Transportation,*
Constitutional Law, *Modern Language.*

Seniors may take any of the Electives of the Junior Year for corresponding terms.

VII. THE COURSE IN CIVIL ENGINEERING.

Leading to the degree of Bachelor of Science in Civil Engineering.

THE FRESHMAN YEAR.

I. Term—	Advanced Algebra, 3b. Drawing, German, II,	Rhetoric, Oratory.
II. Term—	Trigonometry, 7b, Drawing, German, II,	Rhetoric, Elocution.
III. Term—	Analytical Geometry, 9b, Drawing, French,	Rhetoric, Oratory.

THE SOPHOMORE YEAR.

I. Term—	Rhetoric, General Chemistry, Surveying,	Plotting, Oratory.
II. Term—	Analytical Chemistry, Differential Calculus, Descriptive Geometry,	Machine Design, Oratory.
III. Term—	Integral Calculus, Railroad Surveying, Quantitative Chemistry,	History of Art.

THE JUNIOR YEAR.

I. Term—	Mechanics, Strength of Materials, Roads and Pavements,	Architectural Design, Thesis.
II. Term—	Physics, Masonry and Foundations, Metallurgy,	Architectural Design, Thesis.
III. Term—	Physics, Astronomy, {Water Supply, {Sanitary Engineering,	Geology, Thesis.

SENIOR YEAR.

I. TERM—Geology,
Geodetic Astronomy,
Bridges and Buildings,
Social Ethics,
Thesis.

II. TERM—Hydraulics and Hydraulic Motors,
Bridges and Buildings,
Economic Geology,
Political Ethics,
Thesis.

III. TERM—{Mine Surveying,
City Surveying,
Bridges and Buildings,
Railroad Transportation,
Contracts and Specifications,
Thesis.

Lecture Courses.

The following Courses of Lectures have been established:

1. A Course of Lectures is given yearly on Sociology, by Lemuel Moss, D. D., LL. D.

2. A Course of Lectures is given yearly on Social Ethics, by Wayland Hoyt, D. D., LL. D.

3. A Course of Lectures on Practical Ethics is given yearly by Benaiah L. Whitman, LL. D.

Departments of Instruction.

The method of instruction in the College is varied according to the nature of the subject. Each Professor has his individual mode of imparting knowledge, and this, in the result, is advantageous to the learner. In general, the aim is to discuss each subject as far as possible as the subject-matter requires, yet all branches are presented practically, comparatively, and historically, with the view of leading the student to the apprehension of the subject as a whole and in its organic relations. The range and character of the instruction can be gathered from the following account of the different departments.

I. DEPARTMENT OF PHILOSOPHY.

THE PRESIDENT.

The studies in this department embrace Psychology, Philosophy, Ethics, Theism and Education.

1. **Psychology, Descriptive and Explanatory.** Required Course. Juniors. First term, five hours.

2. **Physiological and Experimental Psychology.** Honor open to Seniors and Juniors. First term, five hours.—PROFESSOR DAVIS.

3. **Lotze, Grundzuege der Psychologie.** Honor for Seniors and Juniors.

4. **Philosophy of Mind.** Elective to Seniors and Juniors. Second term, five hours.

5. **History of Philosophy.** Lectures. Required of Juniors. Second term, two hours.

6. **Greek Philosophy.** (Greek 10). Elective to Seniors and Juniors.—PROFESSOR HAMBLIN.

7. **Roman Philosophy** (Latin 12). Elective to Seniors and Juniors.—PROFESSOR ROCKWOOD.

8. **Modern Philosophy,** Weber. Honor Course, Seniors and Juniors. Third term.

9. **Ethics.** Required of Juniors. Second term, four hours.

10. **Philosophy of Religion.** Required of Juniors. Third term, five hours.

11. **Evidences of Christianity.** Elective to Seniors and Juniors —PROFESSOR HARE.

EDUCATION.

12. **History of Education.** A general sketch of educational Theory and Practice in Ancient and Modern times. Lectures. Required of Juniors. Third term, one hour.

13. **Psychology of Education.** Based on Harris' Psychologic Foundations of Education. Half course. Elective to Seniors and Juniors. Second term, two hours.

14. **Comparative and Child Psychology.** Text-book, reports and discussions. Full course. Elective to Juniors. Second term, five hours.—PROFESSOR DAVIS.

15. **Philosophy of Education.** Based on Rosenkranz' Philosophy of Education. Half course. Elective to Juniors and Seniors. Third term, two hours.

16. **School Administration.** High School organizations, function and management; discussion of methods; survey of College Entrance Requirements. First term.

17. **Teachers' Course in American History.** Methods of teaching History with special reference to the work of secondary schools. Second term, two hours.—PROFESSOR HULLEY.

18. **Teachers' Course in Greek.** The Anabasis and Iliad are used as text. Thus the Preparatory work is reviewed, confidence acquired, and suggestions received regarding methods of teachings. Some informal lectures are also given regarding the first year's work in Greek. First term, Seniors and Juniors.—PROFESSOR HAMBLIN.

19. **Teachers' Course in Latin.** Special topics in grammar with practical exercises in Cæsar, Cicero, Vergil. Third term, open to Seniors and Juniors.—PROFESSOR ROCKWOOD.

20. **Teachers' Course in English.** Designed to familiarize the student with the authors required for entrance to college.—PROFESSOR PERRINE.

21. **Teachers' Course in Mathematics.** Mathematics as developed in history and as used in education. (a). Arithmetic: Its culture value, utility, present status in the schools; reforms in arithmetical teaching. (b). Algebra. Its growth during the last three centuries, typical parts, (ethical value.) (c). Geometry: Its basis, historical position, methods, recent geometry.—PROFESSOR BARTOL.

STATE CERTIFICATES.

Graduates of Bucknell University receive State teachers' certificates in Pennsylvania, after three years of experience in teaching. The courses in education and methods of teaching, including Child Psychology, the History, the Psychology and the Philosophy of Education, are helpful to those intending to teach. Students who take not less than eight of these courses will be entitled to a certificate for the work done in addition to the diploma of the Course in which they graduate. No extra charge is made for the courses in Education.

REGISTER OF TEACHERS.

In order to aid Boards of Control in securing suitable teachers, there is kept a registry of graduates of Bucknell University who may wish to engage in teaching. Alumni and friends of the College will render a service if they will inform the President of vacancies.

II. DEPARTMENT OF LAW.

HAROLD MURRAY MCCLURE, A. M.
PRESIDENT JUDGE OF THE SEVENTEENTH JUDICIAL DISTRICT,
LECTURER ON CONTRACTS AND PRACTICE.

FREDERIC EVANS BOWER, A. M.,
ATTORNEY-AT-LAW,
LECTURER ON EVIDENCE AND EQUITY.

ALBERT WILLIAM JOHNSON, A. M.,
ATTORNEY-AT-LAW,
LECTURER ON REAL AND PERSONAL PROPERTY.

The Bucknell College of Liberal Arts offers in its courses for the degrees in Arts and Science a number of subjects specially bearing upon the study of law. Students prepared for college and having taken one year's work in liberal studies, will be admitted to the studies in Law. The subjects offered are those usually given in the first year of the best law schools. The instruction is by text-book, lec-

ture, and study of cases. The texts of "Leading Cases" have been placed in the library for the use of students. A certificate for the work done is given by the department, in addition to the Diploma of the College. But this certificate is not given for any legal subject in which the student's standing is below 9; nor to any student whose general average is below 9. The law studies are counted towards the degree in Liberal Arts, to the amount of one year's work. Opportunity is given for the *Review* of the *Latin, History* and *Literature* required in the Preliminary Examination for registration as students at Law, in Pennsylvania.

1. **Elementary Law.** Robinson's Elementary Law. Third term. Sophomore year.—Professor Hulley.

2. **Blackstone's Commentaries.** One hour, Junior year. B. I, III, IV.

3. **Real Property.** Blackstone B. II, and Select Cases, Lectures. First term, Junior year.—Mr. Johnson.

4. **Personal Property.** Text-book, Select Cases, Lectures. Second term, Junior Year.—Mr. Johnson.

5. **Contracts.** Text-book. Select Cases, Lectures. First term, Senior year.—Judge McClure.

6. **Equity.** Text-book, Select Cases, Lectures. Third term, Junior year.—Mr. Bower.

7. **Evidence.** Text-book, Select Cases, Lectures. Second term, Senior year.—Mr. Bower.

8. **Pleading.** Stephen, Leading Cases, Lectures. Third term, Senior year.—Judge McClure.

9. **Principles of International Law.** Fall term, Seniors and Juniors.—Professor Heim.

10. **Roman Law.** Third term, Seniors and Juniors.—Professor Rockwood.

11. **American Civics.** A study of the frame of Federal and State Government.—Professor Hulley.

12. **The Constitution of Pennsylvania.** The work of Buckalew is used as a text, and the principal decisions of the Supreme Court interpreting the provisions of the Constitution are studied.—Professor Heim.

13. **American Constitutional Law.** Third term, Seniors and Juniors.—Professor Hamblin.

14. **Constitutional Limitations.** Cooley's Constitutional Limitations is used as a text, and cases are studied.—Professor Heim.

15. **Comparative Constitutional Law.** Second term, Seniors and Juniors. A comparison of the Constitutions of England, France, Germany and the United States.—Professor Heim.

16. Moot courts are held in which an attorney-at-law and a student sit as judges, and students, deputed to represent the respective sides, present their arguments. The presiding student writes the opinion of the Court.

III. DEPARTMENT OF ECONOMIC AND POLITICAL SCIENCE.

Ephraim M. Heim, ph. d., professor.

1. **Economics, I.** General course, devoted chiefly to problems of Production and Distribution; first term; five hours. Seniors and Juniors.

2. **Economics, II.** Money and Banking. Second term; five hours. Seniors and Juniors. Prerequisite, Course 1.

3. **Economics, III.** Public Finance. Financial Administration, Taxation and Public Debts. Third term; five hours. Prerequisite, Course 1.

4. **Private Corporations.** Corporate problems, economic and legal. Corporation Finance. Third term; five hours.

5. **Railroad Transportation.** Relation of Railways to Investors, to the Public, and to the Law. Theory of Rates. Methods of State Control. Second term; five hours.

6. **American Civics** and **Parliamentary Law.** A study of the American Frame of Federal and State Government; and of Parliamentary rules and usages.—Professor Hulley.

7. **American Constitutional Law.** Cooley's Elements of Constitutional Law. A study of the law of the Federal Constitution. Juniors and Seniors. Third term; five hours.—Professor Hamblin.

8. **The Pennsylvania Constitution.** Growth and Development of the State Constitution, together with a study of leading cases interpreting existing constitutional provisions. Third term; five hours.

9. **Constitutional Limitations.** The Constitutional Law of the American Commonwealth. The sphere of Civil Rights in relation to the exercise of governmental power through the criminal

law, the police power, the taxing power, and the power of eminent domain. First term; five hours.

10. **Comparative Constitutional Law.** A comparative study of the Constitutions of England, France, Germany, Switzerland and the United States. Second term; five hours.

11. **Municipal Government.** Organization of City Government. Problems of Administration, Municipal Functions. Relation to the State. Second term; five hours. Seniors and Juniors.

12. **International Law.** First term; five hours. Seniors and Juniors.

13. **Political Science and Public Administration.** One hour a week, extending through the Sophomore year in the Course in Jurisprudence. An examination of fundamental concepts and principles, together with a survey of the literature, of Political Science and Economics. Introductory to subsequent courses in law and government.

Honor Courses:

14. **Economics.** First term. One of the following:
(a) Economic History; (b) Socialism; (c) Theories of Distribution.

15. **Administrative Law.** Second term.

16. **Political Science.** Third term. One of the following:
(a) Bluntschli, Allgemeines Staatsrecht.
(b) Gneist, Das englische Verwaltungsrecht.

IV. DEPARTMENT OF LOGIC AND SOCIOLOGY.

WILLIAM EMMET MARTIN, A. M., PROFESSOR.

1. **Logic, Deductive and Inductive.** Elective to Sophomores. Second term, five hours.—PROFESSOR HARE.

2. **Logical Theories.** Honor Course, Seniors and Juniors. Third term, one hour. Prerequisite Course 1.

3. **Scientific Method.** Elective to Seniors and Juniors. Second term, five hours.

4. **Anthropology, Descriptive and Physical.** Elective to Sophomores. Third term, five hours.

5. **Ethnology.** Honor Course, Seniors and Juniors. First term, one hour. Prerequisite Course 4.

6. **History of Culture.** Honor Course, Seniors and Juniors, alternating with Course 5. First term, one hour.

7. **Sociology, Principles and Theory.** Elective to Seniors and Juniors. First term, five hours.

8. **Charities and Reform.** Honor Course, Seniors and Juniors. Second term, one hour. Prerequisite Course 7.

9. **Criminology and Penology.** Honor Course, Seniors and Juniors, alternating with Course 8. Second term, one hour.

10. **Sociology.** A course of lectures on Sociology from the Christian point of view is given each year by Lemuel Moss, LL. D., to the whole College. A special honor course is offered in connection with the lectures.

11. **Esthetics, Principles and Problems.** Honor Course, Seniors. First term, one hour.

12. **History of Art, Architecture, Painting and Sculpture.** Honor Course, Seniors and Juniors. Second term, one hour.

V. DEPARTMENT OF HISTORY.

LINCOLN HULLEY, PH. D., PROFESSOR.

The History Courses have been planned to provide the general student with the essential data of human progress, and the special student with the fullest equipment required for advanced work in Graduate Schools.

1. **Hebrew History and Literature.** (1) The historical background of national slavery, deliverance, conquest, home-making, consolidation, disruption, decline, captivity, restoration, subjection, and dispersion is sketched; (2) the personalities of the Hebrew statesmen, reformers, ethical teachers, and preachers are studied; and (3) the literature is studied with a view to its form, ideas, and development. Every effort is made to give the subject a life-like realism. Senior and Junior elective. Second term, five hours.

2. **New Testament History and Literature.** The church's inception, formal organization, initial activity, internal life, missionary enterprise, the establishment of churches, the growth of a literature, and its contents. Senior and Junior elective. Third term, five hours.

3. **Lectures.** The Bible as a classic; the Bible in its formation; its divine origin and commission, the civilization imbedded in it; methods of Bible study; and kindred topics. Senior year, first term.

4. **Greek Political and Constitutional History.** The City-State. Oligarchies. Democracy. Federal Government. References: Oman, Greenidge, Gilbert, Fowler, Grote, Holm.—PROFESSOR HAMBLIN.

5. **Roman History.** The work is based on Merivale's General History of Rome. Mommsen, Bury, and Gibbon are used for supplementary reading. Second term, Sophomore year.—PROFESSOR ROCKWOOD.

6. **Medieval Europe.** The Germanic invasions, Roman Christianity, the rise of Mohammedanism, German ideas of law, the Age of Charlemagne, the foundations of Medieval Europe, the Feudal System, the rise of the Papacy, the struggle between the Empire and the Papacy, and the intellectual and social life of the Middle Age. Senior elective. First term, five hours.

7. **Modern Europe.** 1500 A. D.—1878 A. D.:—The Protestant Reformation, the Thirty Years' War, the Counter Reformation, the Age of Louis XIV, the Rise of Russia and Prussia; the French Revolution, the later revolutions in France, the English Age of Reform, the consolidation of Germany, and the unification of Italy. Senior Senior elective. First term, five hours.

8. **History of England.** Invasion and early settlements; the Norman Conquest, and the political, religious, social, industrial, and literary developments down to the present time. Senior and Junior elective. First term, five hours.

9. **American Colonial History.** Discovery, settlement, expansion, independence—typical Spanish, French, and English communities are studied; the most important colonial charters and forms of government are analyzed; the triumph of the English over the other settlements in North America, and their independence of England are explained; and, throughout, special attention is given to the colonies in Pennsylvania. Senior and Junior elective. First term, five hours.

10. **Constitutional History of the United States.** This course includes the territorial, industrial, social, and other phases of national development, but special prominence is given to those issues which have involved the operation and interpretation of the Constitution and to the men engaged in its interpretation. Senior and Junior elective. Second term, five hours.

11. **American Civics.** The aim of this course is: (1) To study

the American frame of government, federal and state; (2) to familiarize the class with the text of the Constitution, and with Parliamentary Law; and (3) to study the formative influences and institutions that enter into the American state. Sophomores, required. Third term, five hours.

12. **Elements of Law.** Robinson's "Elementary Law." Thorough drill is given in definitions and the principles of the Common Law. Sophomores, elective. Third term, five hours.

13. **Teachers' Course in American History.** Methods of teaching History with special reference to the work of Secondary Schools. Second term, two hours.

HONOR COURSES.

14. **Blackstone, B. I. First term.**
15. **B. III. Second term.**
16. **B. IV. Third term.**
17. **Pennsylvania History and Civics.**
18. **The Theory of the State.**
19. **Special Periods of American and European History.**

VI. THE GREEK LANGUAGE AND LITERATURE.

THOMAS FRANKLIN HAMBLIN, A. M., PROFESSOR.

There are four terms of required work in Greek in the Classical Course, and five in the Greek Philosophical Course; while Greek may be taken as an elective during the entire Junior and Senior years. Besides the elective Courses a number of Honor Courses are offered. In the Elective Course a year of poetry alternates with a year of prose. A course of lectures on the Greek poets is given to the Seniors, with collateral reading. A course of New Testament Greek, designed especially for candidates for the ministry and extending through the Senior year is given by Professor Phillips.

Courses: 1-5 required, 6-12 elective.

1. **Homer.** Odyssey, Books 5-8. Review of verb forms and syntax of verbs. Epic forms and styles. Word lists. Metre. First term, Freshman year.

2. **Lysias.** Six orations. Inflection and syntax of nouns. Prose

composition. Attic oratory. Translation at sight and hearing. Second term, Freshman year.

3. **Plato.** Apology and selections. Special topics in Greek Syntax. Philosophy and influence of Socrates. The Sophists. Extracts from the Memorabilia at sight. Third term, Freshman year.

4. **Greek Political and Constitutional History.** Bury's History of Greece is used as a text book. The class is also required to do collateral reading on important epochs. First term, Sophomore year.

5. **Demosthenes.** Olynthiacs and Philippics. History and Politics of the Macedonian period. Style of Demosthenes. Second term, Sophomore year.

6. **Eschylus and Sophocles.** Prometheus Bound and Œdipus Tyrannus. The drama, theatre, and metres. First term, Seniors and Juniors, in alternate years.

7. **Euripides and Aristophanes.** Medea and The Clouds Greek Comedy. Religious influence of the poets. Influence of the Classical on the Modern Drama. Second term, Seniors and Juniors, in alternate years.

8. **Greek Literature in English.** A course especially designed for students in the Philosophical or Scientific Courses, that they may become acquainted with some of the Greek masterpieces. The best translations will be studied and explained, and informal talks will be given on various phases of Greek Literature. Third term, Senior and Junior years.

9. **Demosthenes.** *De Corona.* The oratory of Demosthenes, from a literary and political point of view. Æschines against Ctesiphon at sight. Second term, Seniors and Juniors, alternating with 6.

10. **Plato.** The Phaedo. Greek Philosophy. The influence of Plato. Third term, Seniors and Juniors; alternating with 7.

11. **New Testament Greek.** The Gospel according to Luke. Hellenistic Greek. Second and third terms, Freshman year; one hour a week.

12-14. **New Testament Greek.** Translation of the synoptic Gospels; interpretation; Burton's *Moods and Tenses;* characteristics of Hellenistic Greek. Designed for students desiring a linguistic and historical foundation for the interpretation of the New Testament. Three terms. Elective to Seniors.—Professor Phillips.

15. **Teachers' Course in Greek.** The Anabasis and Iliad are used as text-books. Thus the Preparatory work may be reviewed,

confidence acquired, and suggestions received regarding methods of teaching. Some informal lectures are also given regarding the first year's work in Greek. First term, Seniors and Juniors.

HONOR COURSES IN GREEK.

16. **Xenophon.** The Symposium and Œconomicus. Sophomores and Freshmen. Winter terms in alternate years.

17. **Homer and Lucian.** Selections from each in alternate years. Sophomores and Freshmen, third term.

18. **Xenophon and Eschines.** The Memorabilia and the oration against Ctesiphon, in alternate years. Seniors and Juniors, first term.

19. **Sophocles and the Lyric Poets.** Antigone and selections from the Lyric Poets in alternate years. Seniors and Juniors, second term.

VII. THE LATIN LANGUAGE AND LITERATURE.

FRANK ERNEST ROCKWOOD, LL. D., PROFESSOR.

FLOYD GEORGE BALLENTINE, PH. D. INSTRUCTOR.

There are four terms of required work in Latin and eight of elective in the Classical and Latin Philosophical Courses. Honor courses subject to change from time to time, are also offered.

A. Candidates for the Degree of Bachelor of Science take Latin daily during the Freshman year. This course is intended for students who have passed only in the General Requirements in Latin, for admission. The work consists in the study of *Cicero* (*selected speeches*), *Vergil,* and *Prose Composition.*

B. The following courses are designed for students in the Classical and Philosophical Courses, but are also open as electives to students in the Science Course who may be qualified to take them:

COURSES: 1-4 required; 5-14 elective.

1. **Cicero:** *De Senectute.* Livy: Book 1. Review of special topics in Latin Grammar. Oral and written exercises in Prose Composition, based upon the text. Translation at sight and at hearing. First term, Freshman year.

2. **Livy:** Books XXI and XXII. Latin Prose Composition based upon the text. Roman history: Special chapters in Liddell. Second term, Freshman year.

3. **Velleius:** Roman History. PLINY. Selections from the Epistles. Translation at sight. Latin Prose Composition, based upon the text. Third term, Freshman year.

4. **Horace:** Selections from the Odes, Satires, and Epistles. Prosody; Historical Outlines of the Latin Language and Literature; Wilkins' Primer; Lectures. First term, Sophomore year.

5. **Roman History:** The work is based on Merivale's General History of Rome. Mommsen, Bury, and Gibbon are used for supplementary reading. Second term, Sophomore year.

6. **Quintilian:** Books X and XII. Roman Literature. Second term; open to those who have taken course 4; alternating with 11.

7. **Juvenal:** Selected Satires. Third term; open to those who have taken course 4.

8. **Plautus and Terence:** Selected Plays. First term; open to Seniors and Juniors; alternating with 10.

9. **Latin Inscriptions:** Allen's Remnants of Early Latin; Egbert's Manual. Third term; open to Seniors and Juniors; alternating with 12.

10. **Tacitus:** Annals. Translation at sight. Roman History. First term; open to Seniors and Juniors; alternating with 8.

11. **Latin Poets:** Crowell's Selections. Roman Literature. Second term; open to those who have taken course 4; alternating with 6.

12. **Teachers' Course in Latin:** Special topics in grammar with practical exercises in Cæsar, Cicero, Vergil. Third term; open to Seniors and Juniors; alternating with 9.

13. **Roman Private Life:** Lectures; required reading; one short report, involving elementary investigation. Second term; open to Seniors and Juniors.

14. **Roman Law:** Morey's Roman Law; Sandars' Institutes of Justinian; lectures and reports. Third term; open to Seniors; required in the course in Jurisprudence.

HONOR COURSES IN LATIN.

15. **Roman Philosophy:** Cicero and Seneca.

16. **Christian Writers:** Tertullian. Latin Hymns.

17. **Classical Philology.** Introductory course.

VIII. THE ENGLISH LANGUAGE AND LITERATURE.

ENOCH PERRINE, LITT. D., PROFESSOR.

MISS KATHERINE MOTT JOHNSON, A. B., ASSISTANT.

1. **English Literature,** introductory course. Designed to give a general knowledge of the history of English Literature from the Elizabethan to the Victorian periods, inclusive. Required, second term, Sophomore.

2. **Anglo-Saxon:** Old English Language and Literature, with special elective in Beowulf. Elective for those who have taken course 1 and the required work in German.

3. **Chaucer:** Middle English Language and Literature, with readings in Langland and Gower, and in Lounsbury's The English Language. Elective for those who have taken course 1 and the required work in French.

4. **The English Drama;** its development from the earliest times to Shakspere. Elective for those who have taken courses 1 and 7, and alternating with course 9.

5. **Shakspere:** His mind and art. Critical study of **A Midsummer Night's Dream, Hamlet, and Tempest.** Senior elective.

6. **The Georgian Period of English Literature.** Elective for those who have taken course 1, and alternating with course 7.

7. **English Literature from 1830.** Elective for those who have taken course 1, and alternating with course 6.

8. **American Literature,** with special reference to the national period. Elective for those who have taken course 1.

9. **Principles of Literary Criticism.** Elective for those who have taken courses 1, 7 and 8, and alternating with course 4.

10. **Periods of English Literature.** Special "honor" work is given in different periods of English Literature to those who have passed with credit in courses 1, 4, 7, and 8.

11. **English Oratory,** a study of the oration as a literary form. Elective for those who have taken course 1 and the required courses in Rhetoric.

12. **Journalism,** a study and practice of the various forms illustrated in the metropolitan "dailies," together with proof-reading, study of the functions of editors, and readings in the history of great American journalists and journals. Elective for those who have taken course 1 and the required courses in Rhetoric.

13. **Foreign Literature in English.** Lectures on some of the world's masterpieces are given to the Seniors on Monday mornings during the third term.

14. **Teachers' Course in English.** Designed to familiarize the student with those authors, both in the way of theory and practice, that are required for entrance to college.

15. **Le Publique et les Hommes de Lettres en Angleterre,** 1660-1744, Jusserand, or **Ecriovains Modernes del' Angleterre,** Montegus.

16. **Shakspere:** fünf Vorlesungen, ten Brink.

IX. RHETORIC AND ORATORY.

LLEWELLYN PHILLIPS, A. M., PROFESSOR.

MANSFIELD FRENCH FORBELL, A. B., INSTRUCTOR.

MISS MARY UNGER, A. B., ASSISTANT IN ENGLISH.

A.—COURSES IN RHETORIC AND COMPOSITION.

1. **Rhetoric and English Composition:** Introductory course. A. S. Hill's *Beginnings of Rhetoric and Composition.* Themes. weekly recitations, and consultations. Three terms; one hour. Required of Freshmen.

2. **English Composition.** Carpenter's *Exercises in Rhetoric and English Composition.* Daily and fortnightly themes, recitations, and consultations. First term; five hours. Required of Sophomores.

3. **Argumentation:** Baker's *Principles of Argumentation.* Briefs, forensics, and oral discussion. Third term. Open to students who have passed in 1 and 2. Required of all students who enter the Junior Debates.

4. **English Composition:** *Advanced Course.* Wendell's *English Composition.* Daily and fortnightly themes, recitations, and consultations. Second term; five hours. Open to Seniors and Juniors.

5. **Theses:** Every member of the Junior and Senior Classes will write a thesis. The Junior themes will contain not less than two thousand words, the Senior Theses, not less than three thousand words. The subjects will be chosen in conjunction with the heads of the departments to which the subjects belong. Upon the theses

will be based the orations of the Junior Exhibitions and for the Commencement Exercises. The subjects of the thesis will be presented to the Professor of Rhetoric before October 15, and an outline will be presented to the Professor of Rhetoric at the close of the first term. The complete theses will be handed in before March 1, and they will be examined first by the heads of the departments to which the subjects belong and afterwards by the Professor of Rhetoric. The subjects of the Senior theses will be published in the annual catalogue.

HONOR COURSES.

6. **Structure and Style,** with themes. Second and third terms. Open to students who have attained an average grade of nine in courses 1 and 2 or students who have passed in courses 1, 2, and 3.

7. **Forms of Discourse,** with themes. Second and third terms. Open to students who have attained an average grade of nine in courses 1, 2, and 4.

8. **The Theory of Rhetoric.** A study of the laws of thought.

9. **Movements of Thought in the Nineteenth Century.** Methods of investigation; theses. Open to Seniors.

B.—COURSES IN ORATORY.

The aim is to train the student to speak effectively in the pulpit or upon the platform or at the bar. All instruction is based upon the principle that impression precedes and determines expression. Each student receives individual attention during the first half of the course in elocution, during the latter half, in oratory. Special attention is given to debate. Each student is urged to take an active part in the work of the Literary Societies.

The ultimate object of the *physical culture* is to secure a good presence and the ability on the part of the voice and body to interpret correctly the conceptions of the mind.

FRESHMEN.

1. **Physical Culture.** Exercises for securing correct position, and harmony of movements and attitudes; exercises for breath control and vocal culture and for grace in gesture.

2. **Public Speaking.** Study of the fundamentals of public speaking; delivery of short extracts from masterpieces of oratory, aiming to secure directness, earnestness and dignity of address. Required, first and second terms, one hour.

3. **Public Speaking** Delivery of complete orations illustrating and applying the principles studied in the first and second terms. A prize is offered to the young man and one to the young woman of the Freshman Class who excels in the delivery of these orations. Required, third term.

SOPHOMORES.

4. **Public Speaking.** Close analysis and study of the details of public speaking; study of the various styles of delivery and of the different forms of discourse. Delivery of selected extracts from masterpiece illustrating each. Extemporaneous speaking. Reviews and continuation of the physical culture of course 1. Required, first term, one hour.

5. **Public Speaking.** Study of Narration. Description and argumentation. Delivery of selections illustrating each. Preparation and delivery of original narrations and descriptions. Extemporaneous speaking. Required, second term, one hour.

6. **Public Speaking.** Delivery of complete argumentative selections. Preparation for and participation in debate. A prize is awarded to the young man of the Sophomore Class who shall excel in the delivery of an assigned selection in argumentation. A prize is awarded to the young woman of the Sophomore Class who shall excel in the delivery of an assigned selection in Narration. Required third term.

7. **Oratorical Delivery.** This course includes respiration, cultivation of the voice, pronunciation, articulation, and the principles of vocal and gestural expression. Theory is secondary to practice. The student receives daily drill in the different modes of expression. Text-books: Lessons in Vocal Expression, Curry; Principles of Vocal Expression and Literary Interpretation, Chamberlain and Clark. Reference is made to Curry's Imagination and Dramatic Instinct; Curry's Province of Expression, Fénélon's Pulpit Eloquence, Brookings and Ringwald's Briefs for Debate. Elective. Third term, five hours. Open also to Juniors and Seniors.

JUNIORS.

7. **Prize Contest.** A prize contest in Oratory is held in the third term by Juniors, appointed on the ground of superiority in composition and elocution as shown during the preceding terms of the college course.

8. **Prize and Honor Debate.** During the year there are three debates by Juniors, the last of which is a prize and honor debate.

The highest honors in the Junior debate for 1902 were awarded to Sylvester Dunlap and John Belmont Cook.

SENIORS.

9. **Honors in Debating.** During the year an elective course in debating is offered to Seniors. The last debate is public.

10. **Prize in Oratory.** A prize is offered for the best oration of those delivered by the Senior orators at Commencement, regard being had equally to subject-matter, style, and delivery.

X. DEPARTMENT OF MODERN LANGUAGES.

GUIDO CARL LEO RIEMER, A. M., PROFESSOR.

ELYSEE AVIRAGNET, A. M., INSTRUCTOR IN THE ROMANCE LANGUAGES.

PAUL EMIL WEITHAASE, A. M., INSTRUCTOR IN GERMAN.

A. GERMAN.

1a. **Elementary Course.** Grammar; German prose; practice in writing German. Required Course, Freshmen of the Philosophical and Scientific Courses. First and Second terms, five hours. Texts: Bierwirth, Elements of German Grammar; Bronson, German Prose and Poetry.

1b. **Elementary Course.** Grammar; German Prose; practice in writing German. Required Course, Sophomores of the Classical Course. Third term, five hours. Texts: Bierwirth, Elements of German Grammar; Whitney, Introductory German Reader.

2. **German Prose.** Grammar and practice in writing German. Elective Course, for those who have taken Course 1a or 1b. First term, five hours. Texts: Harris, German Composition; Thomas, Practical German Grammar; Hauff, Die Karawane; Riehl, Der Fluch der Schönheit, Das Spielmannskind, Der Stumme Ratsherr, and Die Burg Neideck.

3. **German Prose and Poetry.** Grammar and practice in writing German. Elective Course for those who have taken Course 2.

Second term, five hours. Texts: Harris, German Composition; Thomas, Practical German Grammar; Freytag, Die Journalisten; Hauff, Lichtenstein; Heine, Harzreise; Sudermann, Katzensteg; German Ballads and Lyrics.

4. **Introduction to the Works of Lessing, Goethe and Schiller.** Practice in writing German. Elective Course, for those who have taken Course 3. Third term, five hours. Texts: Von Jagemann, Prose Composition and Snytax; Lessing, Minna von Barnhelm and Emilia Galotti; Goethe, Egmont; Schiller, Wilhelm Tell and Die Jungfrau von Orleans; German Ballads and Lyrics.

5. **Schiller.** Practice in writing German and Lectures. Elective Course, for those who have taken Course 4. First term, five hours. Texts: Von Jagemann, Prose Composition and Syntax; Thirty year War, Wallenstein, Maria Stuart, and Die Braut von Messina.

6. **Goethe.** Practice in writing German and Lectures. Elective Course, for those who have taken Course 4. Second term, five hours. Texts: Götz von Berlichingen, Iphigenie, Tasso, Hermann and Dorothea, and Dichtung und Wahrheit.

7. **Goethe.** Practice in writing German and lectures. Elective Course, for those who have taken Course 4. Third term, five hours. Texts: Faust, Parts I and II.

Courses 5, 6, and 7 are conducted mainly in German.

8. **Lotze.** Grundzüge der Psychologie. (Philosophy 3).

9. **Shakspere: Funf Vorlosungen.** (English 16.)

10. **German Political Science.** (Economics 16.)

11. **German Biological Science.** (Biology 21.)

12. **German Chemical Science.** (Chemistry 16.)

B. FRENCH.

1a. **Elementary Course.** Grammar; French prose; practice in writing French. Required Course, Freshmen of the Philosophical and Scientific Courses. Third term, five hours. Texts: Grandgent, Short French Grammar; Super, French Reader.

1b. **Elementary Course.** Grammar; French prose; practice in writing French. Required Course, Juniors of the Classical Course. first term, five hours. Texts: Grandgent, Short French Grammar; Laboulaye, Contes bleus; George Sand, la Mare au Diable.

2. **French Prose.** Grammar and practice in writing French, Elective Course, for those who have taken Course 1a or 1b. Second

term, five hours. Texts: Grandgent, Short French Grammar and French Composition; Balzac, le Curé de Tours; Bonnechose, Bertrand du Guesclin; Lamartine, la Révolution francaise; Lesage, Gil Blas; Michelet, Extraits de l'histoire de France.

3. **French Prose and Poetry.** Grammar and practice in writing French. Elective Course, for those who have taken Course 2. Third term, five hours. Texts: Grandgent, French Composition; Balzac, Eugenié Grandet; Coppé, le Pater; Dumas père, les Trois Mousquetaires; George Sand, la Famille de Germandre; Taine, les Origines de la France contemporaine.

4. **Continuation of Course 3.** Elective Course, for those who have taken Course 3. First term, five hours. Texts: Corneille, le Cid; Victor Hugo, Selections from les Misérables, and Hernani; Molière, le Bourgeois gentilhomme and l'Avare; Alfred de Musset, Poésie et Comédie; Saint-Beuve, Selected Essays.

5. **Corneille, Moliere, and Racine.** Practice in writing French and lectures. Elective Course, for those who have taken Course 3. Second term, five hours. Texts: Corneille, Horace and Polyeucte; Molière, les Femmes savantes, les Précieuses ridicules, and Tartuffe; Racine, Andromaque, Athalie, and Esther.

6. **A View of French Literature.** Reading; practice in writing French; lectures. Elective Course, for those who have taken Course 3. Third term, five hours. Texts: La Fontaine, Fables choisies; Molière, les Misanthrope; Warren, French Prose of the XVII Century; Descartes, Pascal, la Rochefoucauld, Bossuet; Selections from Voltaire's Prose; Canfield, French Lyrics; Béranger, Alfred de Musset, Alfred de Vigny, Lamartine, Th. Gautier, Victor Hugo, Leconte de Lisle, Verlaine, Sully-Prudhomme; Augier, le Fils de Giboyer; Zola, la Débâcle; Warren, Primer of French Literature.

7. **Conversational French.** An honor course in Conversational French is given by Dr. Aviragnet to students who have made sufficient progress in the language.

8. **French Prose Composition.** In addition to the exercises in French Prose Composition required in all the courses, Dr. Aviragnet gives annually a special course.

9. **Publique et les Hommes de Lettres,** or **Ecrivains Modernes de l'Angleterre.** (English 15.)

C. SPANISH.

DR. AVIRAGNET.

1. **Elementary Spanish.** Grammar. Conversation. Translation of easy prose. Elective course, for Seniors and Juniors. First term, five hours.

2 and 3. **Spanish Prose.** Translation, Composition, Conversation. Elective Course for Seniors and Juniors. Second and third terms, five hours.

XI. DEPARTMENT OF MATHEMATICS.

WILLIAM CYRUS BARTOL, PH. D., PROFESSOR.

JOSEPH MEIXELL WOLFE, A. M., INSTRUCTOR.

CHARLES ARTHUR LINDEMANN, A. M., INSTRUCTOR.

FRANK MORTON SIMPSON, SC. M., INSTRUCTOR.

1. **Solid Geometry.** The course includes the geometry of solids with plane surfaces, the cone, the cylinder, the sphere, and the spherical triangle. Freshman year, first term, five hours for eight weeks.

2. **Algebra Course a.** The topics are ratio, proportion, variation, progressions, theory, and development of functions, logarithms, differentiation of algebraic functions, indeterminate equations. Freshman year, first and second terms, five hours for ten weeks.

3. **Algebra Course b.** The course embraces all the topics of course *a*, but it is extended further and includes the solution of numerical higher equations. Freshman year, first term, Engineering course.

4. **Advanced Algebra.** Half Course in series and the theory of equations; open to Freshmen of the Arts and Science courses. Requisite to Course 12. Second term, two hours.

5. **Determinants.** Honor course, open to Freshmen of the Engineering course and to Sophomores of the Arts and Science courses. Second term, two hours.

6. **Trigonometry, Course a.** The course includes plane trigonometry with application to problems in mensuration and surveying, and spherical trigonometry with some applications to problems in astronomy. Freshman year, second and third terms, five hours for ten weeks.

7. **Trigonometry, Course b.** Similar to course *a*, but extended to met fully the needs of Engineering students. Freshman year, second term.

8. **Analytical Geometry, Course a.** The student is taken through the elementary properties of the right line, the circle, and the conic sections. The course is intended to give a clear conception of the methods of Cartesian analysis rather than an extensive knowledge of its results. Freshman year, third term, five hours for nine weeks.

9. **Analytical Geometry, Course b.** Similar to course *a*, but extended to include the topic of higher plane curves. Freshman year, third term, Engineering course.

10. **Analytical Geometry, Course c.** Supplementary to course *a*, given to Sophomores of the Arts and Science Courses; required of all who take up the Calculus. First term, two hours.

11. **Advanced Analytical Geometry.** The course covers the geometry of three dimensions, surfaces of revolution and higher plane curves; alternating with course 13. Junior year, second term, five hours.

12. **Differential Calculus.** The course includes higher derivatives and functions of several variables, infinite series, maxima and minima. Prerequisite courses 4 and 10. Sophomore year, second term, five hours.

13. **Integral Calculus.** The course includes the simpler methods of integration, rectification and quadrature of plane curves, surfaces and solids of revolution, and applications to problems in Physics and Mechanics. Sophomore year, third term, five hours.

14. **Differential Equations.** An elementary course with mechanical applications; alternating with course 10. Junior year, second term, five hours.

15. **Descriptive Astronomy.** The aim of the course is to present in concise form a synopsis of astronomical knowledge to date. Lectures. Sophomore year, Arts and Science courses, second term, one hour.

16. **General Astronomy.** The subject is taught by text-book, with illustrations in the observatory. The students have free use of

the ten-inch equatorial telescope. Third term, five hours.

17. **Geodetic Astronomy.** The course includes the use of the astronomer's transit and micrometer; observations for Time; conversion of Time; Latitude, Longitude, Azimuth and their geodetic determination; figure and dimensions of the Earth; use of the American Ephemeris; practice in the Observatory. Prerequisites. A course in Surveying and one in the Elements of Astronomy. Juniors and Seniors, first term, five hours.

18. **Plane Surveying.** *Land Surveying,* laying-out, subdividing, and finding the area of given tracts of land. *Topographical Surveying,* by chain and compass, by plane table, and by transit instrument and stadia rods. Sophomore year, first term. Daily.

19. **Railroad Surveying.** Instruction is given in the theory of simple and compound curves, wyes, switches, and turn-outs. A corps is organized, which makes a preliminary survey of a cross-country railroad. The topography of this is taken and plotted; elevation of centre line taken; grade determined; degree of curves fixed, and paper location made. Centre line of permanent survey is now located; slope stake set; earthwork calculated; specifications drawn up, and estimates made of the line surveyed. Sophomore year, Civil Engineering, third term. Daily.

20. **Mine Surveying.** A study is made of surface workings, cuts, pits and other limited excavations; and of underground surveys of a mine with shafts and rifts. Senior year, Civil Engineering, third term, daily for six weeks.

21. **City Surveying.** Town sites are located and plotted; permanent reference points and bench marks established; sewers located and calculated; curb and property lines determined. Senior year, Civil Engineering, third term, daily for six weeks.

22. **Descriptive Geometry.** A study of the representation of lines, plane surfaces, solids and sections of solids; the projection of points, lines and surfaces; practical problems. Engineering course, Sophomore year, second term, five hours.

23. **Linear Perspective.** A course of twelve lectures designed to familiarize the student with the principles of perspective, and to give him an insight into their manifold applications. Arts and Science courses, Sophomore year, first term, one hour.

24. **Courses in Drawing.** Extending through the Freshman year of the course in Civil Engineering, and required of all candidates for the degree of Bachelor of Science in Civil Engineering. Ten hours a week.

(1.) **Linear and Freehand.** An elementary course in drawing to give the student facility in the use of instruments; Geometrical problems; cross-sectioning; shading; isometric drawing; sketching from models.

(2.) **Lettering.** The form and proportion of standard letters; structural details; methods of spacing; laying out titles.

(3.) **Architectural Drawing.** Plans, elevations and perspective drawings; copying of standards.

(4.) **Pen and Color Topography.** Topographical signs; methods of hill shading; surface forms by contours and in color and pencil; enlarging and reducing maps, rendering in water colors, sepia and charcoal.

(5.) **Tracing and Blue Printing.** Photographic methods of the Architect and Engineer.

25. **Plotting of Surveys and Topographical Drawing.** Given in connection with the courses in surveying. Sophomores, first term, one hour.

26. **Machine Design.** Problems in drawing and designing, second term, Sophomore Civil Engineering, one hour.

27. **Architectural Design.** The design of brick and stone structures, including the preparation of plans and specifications. Junior Civil Engineering, one hour, first and second terms.

28. **Architectural Design, 2.** This course will take up the theory and practice of modern framed structures, and the fire proofing of the same. First and second terms, Senior Civil Engineering, one hour.

29. **Physics.** The course in Physics is required in the Civil Engineering course and is elective in the other courses. Instruction is given in the Laboratory supplemented by recitations and lectures.

(a) Laboratory. The Laboratory instruction extends throughout the year and includes experiments illustrating the general laws in all branches of physics. The experiments are largely quantitative and use is made of instruments of precision. The work is entirely individual. The student is required to take notes in the Laboratory, elaborating them outside and presenting for criticism from time to time.

(b) Recitations. Recitations supplement the laboratory work. The study of a text covering the theoretical and mathematical side of the subject is required.

(c) Lectures. Frequent lectures are given in which use is

made of the lecture-room apparatus. All important phenomena are illustrated and experimental demonstrations of the principal laws are presented.

(1) **Mechanics** and **Heat.** First term, Junior year.

(2) **Electricity** and **Magnetism.** Second term, Junior year.

(3) **Acoustics** and **Optics.** Third term, Junior year.

30. **Strength of Materials.** Tensile, compressive, shearing and cross-bending stresses are considered; methods of testing materials of construction are outlined, and problems in the design of wooden and steel beams, girders, footings, beams, roof trusses, etc., are worked out. First term. Junior Civil Engineering, five hours.

31. **Masonry and Foundations.** The materials of masonry construction and their preparation and use receive attention; this is followed by a study of foundations—ordinary, pile, and under water. Under masonry structures are treated: masonry dams, retaining walls, bridge abutments and piers, culverts, and masonry arches. Second term, Junior Civil Engineering, five hours.

32. **Bridges and Buildings.** Design of Framed Structures, Details of Iron and Steel construction. The course is intended to give systematic training in the principles and methods involved in the economical design of framed structures, such as bridges, roofs and buildings. Senior Civil Engineering. Three terms, daily.

33. **Roads and Pavements.** The economic location and design of streets and pavements are considered along with the questions of street drainage and foundations for roads and pavements. Comparisons are made between earth, gravel, broken stone, shell, plank, and burned clay roads, and also between asphalt, brick, stone block and wooden block pavements. Equestrian roads, race tracks, bicycle paths and sidewalks receive attention. First term, Junior Civil Engineering, daily.

34. **Hydraulics and Hydraulic Motors.** This course includes the theory of Hydrostatics and Hydraulics, the flow of water over weirs, through orifices and tubes, and in pipes, canals and rivers; the measurement of water-power; water wheels and turbines. Senior Civil Engineering. Second term, daily.

35. **Water Supply and Sanitary Engineering.** Under the head of the collection and storage of water are taken up quantity of water required, rainfall, flow of streams, storage and evaporation of water, supplying capacity of water sheds, springs and wells. The flow of water in streams, pipes and channels is discussed, as also the practical construction of water works. A study is made of the var-

ious methods of sewage disposal. Third term. Junior Civil Engineering, five hours.

36. **Contracts.** In this course will be given the principles of Common Law as applied to contracts. Third term, Senior Civil Engineering, one hour.

XII. DEPARTMENT OF CHEMISTRY.

WILLIAM GUNDY OWENS, A. M., PROFESSOR.

_____, INSTRUCTOR.

DAVID WALLACE ROBINSON, ASSISTANT.

The Courses in Chemistry are designed to give a comprehensive view of the field covered by chemical investigation and to train the student in the various methods used in chemical research. The courses as a whole are offered to those who expect to teach chemistry or enter the testing or industrial laboratory. As chemistry is at the foundation of the natural sciences the first few courses are essential to the study of science and medicine, and are important for general culture.

1. **Descriptive Chemistry.** An introductory study of the occurrence, history, preparation, properties and most useful compounds of the common elements, both non-metallic and metallic, with a brief study of the common organic compounds, the writing of equations and the solving of stoichiometrical problems constitutes the class-room work. Five hours a week laboratory work are required.

2. **Qualitative Analysis.** In the first part of the term chemical reactions are studied in the laboratory, class-room and text-book, after which fifty compounds, mixtures and industrial products are determined. Each student reports individually and is questioned on the methods of determination. Twelve hours laboratory work a week required. Prerequisite course 1.

3. **Quantitative Analysis.** Typical determinations are made to illustrate the methods used in both gravimetric and volumetric analysis. Ten hours a week laboratory work. Prerequisites courses 1 and 2.

4. **Organic Chemistry.** Using the paraffin series as a basis, the methods of producing organic compounds and their theoretical structure are studied. Medical students should take this course. Six hours laboratory work a week. Prerequisites courses 1 and 2.

5. **Organic Chemistry.** Course four completed, using the benzol series as a basis. In the latter part of the term ultimate organic analysis is taken up. Ten hours laboratory work. Prerequisites courses 1, 2, 3, and 4.

6. **Agricultural Chemistry.** The chemistry of plants and fertilizers are studied. Fertilizer and food analysis is practiced in the laboratory six hours a week. This course covers the legal requirements for teachers of Pennsylvania high schools. Prerequisites courses 1, 2, and 3.

7. **Water and Gas Analysis.** During the first part of the term water is examined for sanitary and boiler purposes. In the second part of the term air, producer and other gases are studied. Ten hours laboratory work. Prerequisites courses 1, 2, and 3.

8. **Metallurgy.** The manufacture and properties of iron and steel are studied and the influence of carbon, silicon, phosphorus, sulphur and other elements. Laboratory work consists in determining these elements and studying the structure under the microscope. Laboratory work eight hours a week. Prerequisites courses 1, 2, and 3.

9. **Toxicology and Urinalysis.** Poisons and their separation from organic matter are studied during the first part of the term. During the second part analysis of urine and of food adulteration is studied. Laboratory work 10 hours a week. Prerequisites courses 1, 2, and 3.

10. **Physical Chemistry.** This course includes the study of mass and volume relation, thermo-chemistry, chemistry of solutions and dissociation; optical chemistry, etc. The laboratory practice requires the use of the spectroscope, polariscope and refractometer, the determination of the specific gravity of solids, liquids and gases, and the use of the calorimeter. Laboratory work six hours a week. Prerequisites Chemical courses 1, 2, 3, and 4, and Mechanics and Physics.

11. **Electro Chemistry.** In this course the laws and theories of electro-chemistry, along with its applications in the arts and in the preparation of elements and compounds, are studied. Laboratory work six hours a week. Prerequisites Chemical courses 1, 2, 3, 4, and 5, and Mechanics and Physics.

12. **Chemical Preparations.** The course includes a study of the manufacture of pure chemicals and testing their purity. The laboratory work consists in working up laboratory residues and preparing pure chemicals. Six hours laboratory work a week. Prerequisites: courses 1, 2, 3, 4, and 5. Third term.

13. **History of Chemistry.** This course extends through the second and third terms, one hour a week. It follows the history of the development of chemistry from the earliest times to the present day. Prerequisites courses, 1, 2, 3, and 4.

14. **Chemical Theories.** This course extends throughout the year one hour a week. Prerequisites courses 1, 2, 3, 4, and 13, or their equivalents.

HONOR COURSES.

15. **Stereo-Chemistry.**

16. **Chemical Philosophy.**

17. **German Chemical Literature.** Junior year, one hour.

XIII. DEPARTMENT OF ORGANIC SCIENCE.

GEORGE G. GROFF, M. D., PH. D., LL. D., PROFESSOR.

NELSON FITHIAN DAVIS, SC. D., PROFESSOR OF BIOLOGY.

It is the constant aim in this department to teach how to interpret nature. The student is guided in his investigations by lectures and laboratory manuals.

Courses 1, 3, 4, 5, 6, 14, 15, 16, 17, 19, and 20, are given by Professor Groff.

Courses 2, 7, 8, 9, 10, 11, 12, 13, and 18 are given by Professor Davis.

1. **Animal Physiology.** Recitations, lectures, and laboratory work. Second term, Sophomore year.

2. **Experimental Physiology.** Lectures and experiments to illustrate the functions of the organs of the animal body. First term.

3. **Neurology.** Recitations, lectures, and laboratory work. Third term. Prerequisite: Course 1 and General Chemistry.

4. **Sanitary Science.** Lectures, Second term, one hour.

5. **Human Osteology and Comparative Anatomy.** Recitations and dissections. First term.

6. **Human Anatomy.** Recitations and dissections. Second term.

7. **Normal Histology.** Recitations and lectures, and laboratory work. Second term.

8. **Embryology.** Recitations, lectures, and laboratory work. First term.

9. **Biology.** Recitations and dissections. First term.

10. **Invertebrate Zoology.** Recitations and dissections. Second term.

11. **Vertebrate Zoology.** Recitations and dissections. Third term.

12. **Organic Evolution.** Honor course. Second term, Junior year, two hours.

13. **Heredity.** Honor course. Third term, two hours.

14. **Phaenogamic Botany.** Recitations, lectures, and field work. Third term.

15. **Cryptogamic Botany.** Recitations, lectures, and field work. Third term.

16. **Plant Physiology.** Honor course.

17. **Elements of Forestry.** Lectures.

18. **Bacteriology.** Recitations, lectures, and laboratory work. Third term.

19. **Mineralogy and Geology.** Recitations, lectures, and laboratory work. First term.

20. **Economic Geology.** Recitations, lectures, and laboratory work. Second term.

21. **German Biological Literature.** Junior year, one hour.

MEDICAL PREPARATORY DEPARTMENT.

WILLIAM LEISER, M. D.,
Lecturer on Diagnosis.

WEBER L. GERHART, M. D.,
Lecturer on Anatomy.

CHARLES ALEXANDER GUNDY, M. D.,
Lecturer on Surgery.

GEORGE G. GROFF, M. D., LL. D.,
Professor of Anatomy & Physiology.

NELSON FITHIAN DAVIS, SC. D.,
Professor of Biology.

WILLIAM GUNDY OWENS, A. M.,
Professor of Chemistry.

For the present Bucknell University does not offer a full course of medical study nor confer degrees in medicine; but offers the preparatory studies and most of the non-clinical studies of the first two years of the courses required in the Medical Colleges. The student can select from the medical subjects offered at Bucknell University such as will be required for advanced standing in the Medical College in which he may wish to complete his studies for the degree in medicine, and if his standing in such subjects averages not less than nine, he will receive from the Department of Medicine in Bucknell University a certificate of proficiency in those subjects and in such other subjects related to medical studies as he may have completed at Bucknell. These subjects are open only to students in the college of Liberal Arts and the Certificate of proficiency is given to students only upon graduation, and in addition to the Diploma of the College of Liberal Arts.

1. **Animal Physiology.** Recitations, lectures, and laboratory work. Second term. Experimental Physiology. Third term.
2. **Neurology.** Recitations, lectures, and laboratory work.
3. **Physiological Psychology.** Recitations, lectures, and experiments.
4. **Pathology.** Recitations, lectures and autopsies.
5. **Sanitary Science.** Recitations and lectures.
6. **Human Osteology and Comparative Anatomy.** Recitations and dissections.

7a. **Human Anatomy.** Recitations and dissection of human body.

7b. **Human Anatomy.** Recitations and dissection of human body.

8. **Normal Histology.** Recitations, lectures and laboratory work.
9. **Embryology.** Recitations, lectures, and laboratory work.
10. **Biology.** Recitations and dissections.
11. **Invertebrate Zoology.** Recitations and dissections.
12. **Vertebrate Zoology.** Recitations and dissections.
13. **Phaenogamic Botany.** Recitations, lectures and field work.
14. **Cryptogamic Botany.** Recitations, lectures and field work.
15. **Bacteriology.** Recitations, lectures and laboratory work.
16. **Materia Medica.** Chemical preparations.
17. **Descriptive Chemistry.** Recitations and laboratory work.
18. **Analytical Chemistry.** Recitations and laboratory work.
19. **Quantitative Analysis.** Recitations and laboratory work.

20. **Toxicological and Urine Analysis.**

21. **Physiological Chemistry.** This Course includes such chemical determinations as are of special importance to medical students.

THE BIOLOGICAL LABORATORY.

The Biological Laboratory is equipped with apparatus for carrying on work in the Organic Sciences. A large room has been fitted up especially for Microscopic work with equipments for fifteen students. Each student has a separate desk containing a microscope and the necessary reagents. The Laboratory is also supplied with collecting and bacteriological apparatus, with books of reference, and other appliances necessary for carrying on Biological research. Those taking Microscopy, have the use of microtomes, incubators, reagents, etc. New apparatus is added as occasion demands. The work in Zoölogy is illustrated by marine and fresh-water forms, skeletons, and mounted specimens. In Comparative Anatomy and Osteology the work is illustrated by skeletons representing different types of vertebrates. Physiology is illustrated with human skeletons, a life-size French manikin, prepared tissue, and numerous charts. Material for Human Anatomy is received from the State Anatomical Board in Philadelphia, and each students has the opportunity to dissect the whole human body. The work in Materia Medica is illustrated by specimens of crude drugs. The student in Histology and Embryology has a good supply of paraffin and collodion blocks. The work is illustrated with miscroscopic slides, alcoholic material, and French wax models. Each student is provided with dissecting instruments.

THE MUSEUM.

Curator Professor Nelson Fithian Davis, sc. d.

The College possesses a good collection of illustrative material in Botany, Mineralogy, Geology, Zoölogy, Materia Medica, and Histology. The specimens are distributed under these classifications and those of Archæology, as follows:

Botany	1,600
Mineralogy	3,000
Geology	2,000
Zoölogy	4,500
Archæology	525
Histology	1,200
Materia Medica	350
Total	13,175

Additions to the Museum will always be thankfully received, especially of objects which can be used in laboratory work.

Among these may be mentioned: Zoölogical specimens, especially marine and fresh-water forms of life; insects; skeletons of vertebrate animals, birds, and mammals; botanical specimens; crystallized minerals; American and especially Pennsylvania rocks.

Contributions for the Museum have been received during the past year from Professor H. N. Couser, of Sunbury, Pa., Prof. W. E. Moneval, Prof. Geo. G. Groff, Mr. W. C. Gretzinger, Mr. I. A. Murphy, Mr. J. R. Hayes, Mr. E. A. Sterling, Mr. J. Sanford Davis, Mr. E. C. Baker, Mr. E. E. Hess and Mr. Calvin H. Elliott.

THE LIBRARIES AND READING ROOMS.

Librarian: Professor William E. Martin, A. M.

Assistants: Thomas B. Powell and Frances E. Williams.

The College Library. The general library contains about twenty-four thousand volumes, besides several thousand pamphlets. The reading room is connected with the library, and offers facilities for reading, studying, and writing. During term-time both are open forenoon, afternoon, and evening of each day, Sundays and holidays excepted, and both are maintained without extra charge to students. Students in all departments have free access to the shelves, and may draw two books at one time and retain them for two weeks, with the privilege of one renewal, if desired.

For greater convenience of instructors and students, collections of special technical books are also kept in the Laboratories of the Physical and the Organic Sciences, and in the Astronomical Observatory.

The library is regarded as a working laboratory for all departments of instruction, students being constantly cited to it in classroom work. In this way, while answering the purpose of general culture, it supplements in great measure the monographic treatment of text-book study, and the student is trained under competent guidance to become an investigator. The resulting practical acquaintance with books and bibliography proves a valuable part of liberal education.

By aid of the Card Catalogue, and Pool's Index to Periodicals, all the resources of the library on any given subject are at once available.

Valued contributions in books, pamphlets, periodicals, and

money, have been made by the following during the year ending November 1, 1903:

Advocate of Peace, American Economist, Anthracite Strike Commission, *Arboriculture,* Prof. E. Aviragnet, Mus. Doc., Baker & Taylor Co., J. L. Bailey, Esq., *Baptist Commonwealth, Baptist Home Mission Monthly, Baptist Missionary Magazine,* The Misses Barber, Frederick Bertolette, Esq., Heirs of James F. Brown, D. D., Reuben F. Brown, Esq., *Brown Alumni Monthly, Bulletin of Bibliography, Chicago Seminary Quarterly,* Civil Service Commission, "Class of 1903," *Columbia University Quarterly,* W. C. Conant, W. J. Coxey, A. M., Z. Daniel, Gherardi Davis, Esq., Federation of Churches and Christian Organizations in New York, Hon. B. K. Focht, *Forest Leaves, Forestry Quarterly,* W. L. Gerhart, M. D., Rolfe Gerhart, Esq., Mrs. R. M. Green, Registrar W. C. Gretzinger, Ph. B., Prof. G. G. Groff, M. D., Harper & Brothers, President Harris, *Hartford Seminary Record,* Prof. T. F. Hamblin, A. M., Prof. E. M. Heim, Ph. D., A. Barton Hepburn, LL. D., Binger Hermann, Esq., Walter L. Hill, Esq., James H. Hyslop, Ph. D., Interstate Commerce Commission, A. W. Johnson, A. M., Johns Hopkins University, Rev. John T. Judd, A. M., James Lloyd Kalp, James J. Kane, U. S. N., Labor Statistics Bureaus of Illinois, Maryland, Michigan, New York, Ohio, Lake Mohonk Conference, *L'Agenda,* 1903, *Lewisburg Chronicle, Lewisburg Journal,* Craige Lippincott, Esq., Longmans Green & Co., Mrs. A. T. Loomis, Hon. H. M. McClure, Charles E. Magoon, Esq., Hon. T. M. Mahon, M. C., Merchants' Association, *Middleburg Post,* Mining Bureau, Manila, *National Reciprocity, New Jersey Baptist Bulletin,* New Jersey State Library, *Newtonian, Optimist,* Mrs. S. H. Orwig, Prof. W. G. Owens, A. M., Pennsylvania Society of New York, Pennsylvania State College Experiment Station, Pennsylvania State Library, Hon, Boies Penrose, Prof. Enoch Perrine, Litt. D., Harold Perrine, *Philadelphia Evening Telegraph,* Philadelphia Free Library, Mrs. Rufus King Polk, *Post Graduate,* Rev. H. B. Rankin, Prof. G. L. C. Riemer, A. M., *Rochester Baptist Monthly,* Prof. F. E. Rockwood, LL. D., Mrs. James Royer, Alfred S. Sheller, R. G. Slifer, A. M., The Smithsonian Institution, *Sound Currency,* Mrs. O. W. Spratt, Rev. Leroy Stephens, D. D., *Sunset,* James S. Swartz, A. M., *Travellers' Record, University Record,* Washington Government Departments: Agriculture, Census, Commerce and Labor, Education, Ethnology, Geological Survey, Interior, Library of Congress, National Museum, Naval Intelligence, Patent Office, State, Superintendent of Documents, Treasury, War, J. M. Wolfe, A. M., *World's Fair Bulletin,* Women's Synodical Temperance Association, and many Colleges, Schools, and Universities.

General College Orders.

ATTENDANCE.

Only under exceptional circumstances will excuses be granted to leave College during term time. In such cases the examination on the studies gone over by the class, during a student's absence, will be especially searching, and a high degree of attainment will be required. When a student is absent more than a one fourth of the term for any reason, he is required to stand private examination in addition to the examination required of the class. One who is absent during the entire term must almost necessarily lose his standing in his class. The work of the term begins on the day of opening, and recitations are expected at the first hour appointed for the meeting of the classes. The work continues uninterruptedly, with the exception of holidays marked in the Calendar, until the last day of the term.

STANDING.

Each instructor records, in numbers ranging from 0 to 10, the character of the recitation of every student reciting to him, and notes also any delinquency in conduct and attendance. The weekly summary of these markings is recorded in permanent books, and constitutes the basis for determining the standing of the student during his connection with the institution. Unexcused absences from recitations are counted as zero in making up the weekly averages. *Excused* absences have half the effect in lowering a student's standing as unexcused absences, but a student may, at the option of the professor, do supplementary work, to obviate the effect upon his standing of excused absences. At the close of each term an average of these marks is made out, and a report of the scholarship, attendance, and conduct of each student is transmitted to his parent or guardian by the President. No student is advanced from one class to another whose average in any study is less than 7; nor is any student recommended to the Board of Trustees for graduation in the general courses if his average standing during either his Junior or Senior

year shall fall below 8. The passing grade for graduate students is 9. No one will be recommended for graduation in the Course in Jurisprudence, Biology, Chemistry, and in Civil Engineering, nor be granted a certificate in the Law or Medical studies, if his average is below 9.

Conditioned students are not recommended to the Board of Trustees for promotion. Students conditioned on entrance must discharge such conditions within the first year thereafter.

If a student has failed in the studies of a term, he will not be permitted to enter upon the studies of a subsequent term until he has passed in the subjects in which he failed, unless a postponement of examination to a definite time is granted by the Faculty.

A student who has not completed his rhetorical work in any term will not be permitted to enter upon any of the work of the succeeding term until such deficiency is made up.

Appointments in the Graduating Class are made according to the aggregate standing of each member during his entire course. But in assigning these parts the Faculty takes into account the deportment of the student, as well as marks for recitations. The minimum average for an Oration of the First Class is fixed at 9, and for an Oration of the Second Class at 8.

Students who attain an average of 9.4 or more for their entire course are graduated *summa cum laude;* students who attain an average of 9.2 or more are graduated *magna cum laude;* those who attain an average of 9 or more are graduated *cum laude.*

THE SCHOLARSHIP SOCIETY.

The Scholarship Society is chosen from those members of the graduating class in the Liberal Arts Courses who attain a standing for the course of 95 or more. The following were nominated for membership in the Scholarship Society, from the Class of 1903:

Hannah Goodman,
Walter Kremer Rhodes,
Reese Harvey Harris,
Carl Wayland Tiffany.

EXAMINATIONS.

The dates of the examinations are given in the Calendar. In case a student fails to be present at the examination of his class, for

any justifiable reason, his examination will be held at such time as the Faculty may appoint, but in no case is an examination granted a student in advance of the time appointed for the examination of the class.

PUBLIC WORSHIP.

The College duties of each day are opened with religious services in Bucknell Hall, which all the students of the College are required to attend.

Attendance upon public worship in some church in town on Sunday morning is required. Students must attend the religious services held on Thanksgiving Day.

On the day of Prayer for Colleges, religious services are held in the forenoon, when a sermon is preached by the President, or by some one at his request. All the students are required to attend. In the afternoon and evening services are held in Bucknell Hall, attendance upon which is advised, but not required.

GOVERNMENT.

It is assumed that all who enter upon the courses of study in the College do so for the purpose of acquiring an education, not only of the intellect, but also of character. The Laws of the College, enacted by the Board of Trustees, are as few and simple as the proper regulation of a community of young men will permit. These are printed, and a copy is placed in the hands of every student at the beginning of each year. These laws must be observed, not only in their letter, but in their spirit. The atmosphere of the Institution is not that of arbitrary restraint, but of reasonable conformity to reasonable laws. The College does not wish to place its stamp or bestow its honors upon any one who is not willing to deport himself as a gentleman. Each student is distinctly placed upon his manhood, and if he abuses his privileges, after reasonable caution, he must withdraw from the Institution.

PRESIDENT'S OFFICE HOURS.

The President of the University is in his office, in the Main College building, every Tuesday, from 9.30 A. M. to 12 noon, to confer

with students who may desire advice or assistance. Students are encouraged to communicate frankly with the President upon any subject in which he may be of help to them.

OFFICE HOURS FOR THE COLLEGE WOMEN.

The Dean of the College women will receive, in her office in the Institute, College women who may desire advice or assistance from her.

VOLUNTARY SOCIETIES.

Euepia; Theta Alpha. These are the two Literary Societies of the College for men. They hold meetings for Orations, Essays, and Debates. Each Society has a convenient hall, and by an arrangement of the Faculty, will always have a nearly equal number of members.

The Zeta Literary Society is composed of young women admitted to any of the courses in the College.

The Young Men's Christian Association is formed of students from College. It receives religious periodicals and corresponds with kindred societies. A hall has been appropriated to the Society, and has been suitably furnished for religious meetings.

The Students' Publication Association is an organization which has in charge the issuing of the *Bucknell Mirror.* This periodical appears monthly during the collegiate year. The same Association publishes the *Commencement News* daily during Commencement week.

Another association of students publishes, weekly, during the school year the *Orange and Blue.*

The Athletic Association of the College has been formed to encourage and regulate athletic sports. Considerable liberty is allowed the Association in carrying out its purpose. The Association is not allowed, however, to arrange match games with other similar bodies without having secured the consent of the Faculty.

No student who is deficient in rhetorical or class-room work in any term shall be eligible to the office of manager or director in any student organization, or to be a member of any exhibiting organization, or of any contesting athletic team, or of any publishing or editing board during any subsequent term until such deficiency is made up.

HEALTH AND PHYSICAL CULTURE.

GEORGE W. HOSKINS, DIRECTOR.

The Tustin Gymnasium has been provided for the physical training and development of young men. Young women have opportunity for physical training in the Gymnasium of the Institute. These are now provided with the apparatus usually found in well-furnished gymnasiums. The Directors of the Gymnasium examine every student, taking and recording in a book his physical measurements, and prescribe such exercise as may be required for his physical development. Regular exercise in the Gymnasium is required of all students during the winter term.

AIDS AND HONORS.

PRIZES.

The prizes are awarded to the persons who in the judgment of the several committees attain the highest degree of excellence among the respective competitors, but no prize is bestowed unless a high degree of merit has been attained by the person receiving it.

THE PRIZE OF THE CLASS OF '71.

This prize, established by the Class of 1871, is awarded to the student of the Freshman Class who shall prove himself best prepared for College in the two branches, Latin and Mathematics, and who shall have received his preparatory training in Bucknell Academy.

The prize for 1903 was awarded to Edwin Warren Rumsey.

THE FRESHMAN DECLAMATION PRIZE.

A prize is awarded to the member of the Freshman Class who shall excel in declamation at the Annual Contest of the Freshman Class.

The prize for 1903 was awarded to Lynn Clark Drake.

THE FRESHMAN ESSAY PRIZE.

An annual prize is given to that member of the Freshman Class who shall on or before the first day of June in each year, present the

best essay upon a topic to be selected by the Professor of Rhetoric. The Committee of Award will consist of the Professor of Rhetoric and two others to be designated by the Faculty.

The prize for 1903 was awarded to Florence Louise Bacon.

THE SOPHOMORE DECLAMATION PRIZE.

A prize is awarded to the member of the Sophomore Class who shall excel in declamation at the Annual Contest of the Sophomore Class.

The prize for 1903 was awarded to Roy Grier Bostwick.

THE SOPHOMORE ESSAY PRIZE.

A prize is awarded to the member of the Sophomore Class who shall write the best English composition on an assigned subject. The Committee of Award consists of the Professor of Rhetoric and two others chosen by him.

The compositions are limited to 2,000 words, and must be presented to the Committee on or before the first day of June.

The prize was awarded in 1903 to Norman Elwood Henry.

DECLAMATION PRIZES FOR WOMEN.

Prizes for the best declamation open for competition to the Sophomore and Freshman Classes, were awarded in 1903 respectively to Pearl Lois Smith and Lucretia Garfield Snyder.

THE REGISTRAR'S PRIZE.

The Registrar of the University offers a prize to that member of the Junior Class who shall pronounce the best oration at the Junior Exhibition in Oratory.

The Junior oratorical prize was awarded in 1903 to John Erb Hunsberger.

The corresponding Prize for Women was awarded in 1903 to Velola E. Hall.

THE JUNIOR DEBATE PRIZE.

Prizes are awarded to the two members of the Junior Class who evince superiority in debate at the Junior prize contest.

The first prize was awarded in 1903 to Thomas Edward Cule: the second to David Wallace Robinson.

THE HOLLOPETER PRIZE.

William C. Hollopeter, M. D., Class of 1874, has established an

annual prize for excellence in Chemistry, to be awarded to that student at graduation who shall have done the best work in Chemistry, regard being had both to the amount and quality of the work.

The prize was awarded in 1903 to Jacob Frederick Sigel.

THE HERBERT TUSTIN PRIZE.

In memory of his deceased son, the late Professor Francis Wayland Tustin, Ph. D., of the Class of 1856, paid to the Trustees of the University the sum of five hundred dollars, "as the foundation of the Herbert Tustin Prize Fund, the interest of which is to be forever paid annually as two prizes, in the proportion of fifteen dollars for the First Prize, and of ten dollars for the Second Prize, to the two students of the Senior Class who shall have attained the highest and the second highest standing in Psychology and Ethics (under such regulations for the pursuit of these studies as the Faculty of the College shall prescribe from time to time), and whose conduct for the last two years of their course in College shall have been without exception."

The first prize was awarded in 1903 to Reese Harvey Harris; and the second to Howard King Williams.

THE HERBERT GOODMAN BARROWS PRIZE.

In memory of his son, the Reverend William Barrows, A. M., of the Class of 1867, paid to the Trustees of the University the sum of five hundred dollars, "as the foundation of the Herbert Goodman Barrows Prize Fund, the interest of which is to be forever paid annually as two prizes of equal amounts to the student or two students of the Senior Class who shall have attained the highest standing, respectively, in the Latin and in the Greek language and literature (under such regulations for the pursuit of these studies as the Faculty of the College shall prescribe from time to time), and whose conduct for the last two years of their course in College shall have been without exception."

The prize for excellence in Greek was awarded in 1903 to Mary Alma Garrison; the prize for excellence in Latin was awarded in 1903 to Hannah Goodman.

THE JOHN SPRAGUE PRIZE.

The Reverend Thomas Harry Sprague, Ph. B., of the Class of 1897, offers an annual prize to the student who excels in the courses in the English Bible, to be named in memory of his father, The John Sprague English Bible Prize.

This prize was awarded in 1903 to Mansfield French Forbell.

THE CHAPLAIN J. J. KANE PRIZE.

The Reverend James J. Kane, A. M., Chaplain in the United States Navy, and a graduate from the Theological Department of this University, of the Class of 1867, has established a prize which is to be given annually to that member of the graduating class who delivers the best oration on Commencement Day.

This prize was awarded in 1903 to William Lawrence Kalp.

THE GENERAL MILLER FELLOWSHIP.

A fellowship in Chicago University, open only to graduates of Bucknell University, has been founded by Major-General Charles Miller, A. M., of Franklin, Pa.

The General Miller University Fellow for 1903 is Thomas Johnson Morris, A. M., Class of 1900.

SCHOLARSHIPS.

I. THE BUCKNELL SCHOLARSHIPS.

The William Bucknell Scholarships, twenty in number and of $1,000 each, were established for the purpose of aiding worthy young men in securing an education which will increase their usefulness in life. The income of these scholarships is to be paid annually to twenty young men, in accordance with the rules which will be made known upon application to the Committee of Examination, consisting of the President of the University, H. S. Hopper, Esq., and Professor Rockwood.

II. SCHOLARSHIPS FOR MINISTERS' CHILDREN.

Scholarships upon the general foundation have been established for the children of ministers of the Gospel, of all denominations, in active service.

III. THE LIVINGSTON SCHOLARSHIPS

Established from a legacy of M. B. Livingston, twenty-two in number, are available for students for the Ministry.

IV. THE LONGAN SCHOLARSHIP.

The Longan Scholarship, established from a legacy of O. W.

Longan, Esq., is available for a student for the Ministry from Lycoming County, Pennsylvania.

V. THE LEWIS E. JONES SCHOLARSHIP

Was established from a legacy of the late Lewis E. Jones, and is available for students of Welsh descent to the amount of the income from five hundred dollars.

VI. THE MEDICO-CHIRURGICAL SCHOLARSHIP.

The Medico-Chirurgical Medical College of Philadelphia offers a scholarship covering tuition in that College to the student from Bucknell University who evinces the best preparation and aptitude for medical work.

VII. THE PHILADELPHIA ALUMNAE SCHOLARSHIP.

This scholarship, founded by the Philadelphia Alumnae Club, is available for a young woman student from Philadelphia.

VIII. THE GENERAL MILLER SCHOLARSHIPS.

Ten scholarships have been established by Major-General Charles Miller, A. M., to be awarded to worthy members of the graduating class.

IX. ANNUAL SCHOLARSHIPS.

A number of persons have established annual scholarships for the aid of young men or women attending college. Information concerning ministerial and annual scholarships can be obtained from the President of the University.

HONOR STUDIES.

In order to promote special scholarship in the several departments of study the following provision has been made:

1. Any student who has obtained an average of 9 in the studies of the previous term may take special work in any department of the College, under the direction of the Professor of that department.

2. Such work must be assigned by the Professor, and the method of study prescribed by him.

3. If the student shall attain an aggregate average of 9 in all the studies of the current term, and pass a satisfactory examination in the voluntary study, the work shall be credited to him in the Annual Catalogue of the College.

4. Only one such study shall be pursued by any one student during any one term. A student may also take two honor studies in the Summer vacation.

5. The Professor with whom the student is working shall have the privilege of requiring a partial examination on the work done at any time during the term, and there may be regular recitations at the Professor's option.

6. The amount and quality of this extra work shall be taken into account in awarding honors at graduation.

The following Honor Examinations have been sustained during the year ending June 24th, 1903:

CLASS OF 1903.

Sarah Hammill Ayres, in Aesthetics and in Chaucer; Irwin Albert Bartholomew, in Chaucer; John Weiser Bassler, in Ethnology and in Charities and Reform; Harry Edmund Bilger, in Money and Banking, and in Descriptive Geometry; George Ripley Bliss, in Logic; Remembrance Forde Bresnahan, in Sociology, in Charities and Reform and in American Literature; Alice Jessamine Butler, in Physiological Psychology; Elva Sarah Coleman, in Library Economy; John Belmont Cook, in Aesthetics, in Sociology, in Logic, in Economic History and in American History; Alexander Forest Dershimer, in Descriptive Geometry; Sylvester B. Dunlap, in Sociology, in Money and Banking, in Municipal Government and in American Literature; Emma Rebekah Ebling, in Aesthetics; Charles Fred Eisenmenger, in German, in Comparative Psychology and in Social Ethics; Mansfield French Forbell, in Aesthetics; Hannah Goodman, in French, in German and in American Literature; Abram Cyrus Gunter, in Practical Astronomy, in Comparative Psychology and in Civics; Reese Harvey Harris, in Physiological Psychology, in Philosophy of Mind, in Argumentation and in German; James Lloyd Kalp, in Tennyson; William Lawrence Kalp, in Anthropology, in Botany, in American Literature and in English Bible; Walker Bruce Kester, in Sociology; Ida Eveline Luchsinger, in Aesthetics and in American Literature; Walter Kremer Rhodes, in Aesthetics, in Sociology and in Descriptive Geometry; Helen Agatha Selinger, in

American Literature; Morton Rutherford Sheldon, in Aesthetics, in Sociology and in American Literature; Clyde Nillis Steininger, in Blackstone, in American Literature and in Shakspere; Robert Josiah Terrell, in Aesthetics, in American Literature, in Argumentation, in Economic History and in Sociology; Carl Wayland Tiffany, in American Politics, in Georgian Literature, in English Romantic Literature and in Shakspere; Howard King Williams, in Philosophy of Mind and in Sociology; John Adam Young, in Psychology of Education.

CLASS OF 1904.

Blanche Allyn Bane, in Matthew Arnold; Percival DeWees Browning, in Descriptive Geometry; Gaul Carrier, in Pennsylvania Civics; Thomas Edward Cule, in Debate, in Argumentation and in Sociology; Gilbert Mason Deats, in American Literature; Charles Hodge Ealy in Economics, in Sociology, in Argumentation and in Debate; Julius Robert Hayes, in History of Chemistry, in Organic Chemistry and in Toxicology; John Erb Hunsberger, in Sociology (three courses) and in Argumentation; Albert George Karge, in American Literature, in Economic History, in Finance, in Journalism, and in Sociology; Ebenezer Edward Morris, in Descriptive Geometry; Charles R. Myers, in Argumentation; Lewis William Robey, in Philosophy of Mind, in Equity and in Debate; David Wallace Robinson, in Systematic Botany, in Argumentation and in Debate; Olive Schillinger, in French; John Henry Stahl, in Differential Calculus; Lloyd Webster, in English Bible; Walter Samuel Wilcox, in English Bible; Clyde Dale Wolfe, in Descriptive Geometry.

CLASS OF 1905.

Cottie Gudila Albright, in Tennyson; Jeremiah Stamey Ausherman, in Sociology; Emory Oliver Bickel, in German (three courses) and in Sociology; Roy Grier Bostwick, in Logic and in Tennyson; Ray Preston Bowen, in German and in Sociology; Mary Isabel Bower, in French; Laverda Adelia Burgart, in Tennyson; Margaret Forgeus, in Tennyson; Nellie May Goddard, in Cicero de Amicitia and in Tennyson; Lynn Sumner Goodman, in Descriptive Geometry; Roy Hanna, in German; Norman Elwood Henry, in Herodotus, in Sociology (three courses), and in German; Phares Gross Hess, in Sociology (three courses) and in German; Francis Leroy McCauley,

in Sociology; Earl Austin Morton, in Anthropology; Inez Olds, in German (two courses); Lee Russell Ranck, in Sociology; John Calvin Sanders, in Sociology; Pearl Lois Smith, in Systematic Botany and Sociology; Anthony Steinhilper, in Sociology; Thomas Wood, in Surveying, in English Bible and in Civics.

CLASS OF 1906.

Genus Ebert Bartlett, in Sociology; Florence Jeannette Cobb, in German; Ruth Hammitt, in Odyssey; Rachel Allie Kanarr, in Lucian; Mary Montfort Moll, in Odyssey and in Lucian; Helen Elizabeth Rickabaugh, in German; Lucretia Garfield Snyder, in Algebra; Corabell Suiter, in Tennyson; Sarah Ella Unger, in German; Chester Lyle Wynne, in Algebra.

EXPENSES.

The College charges amount to $95 per annum, for those who room in the College buildings, and $85 for those who room in the town. Tuition is rated at $50 per annum. Students in the course in Civil Engineering are charged $5 per term extra. Students in the other Courses who take an engineering subject are charged the same rates as students in engineering. This charge is for the regular work; when a fourth study or honor study is taken, an extra charge is made. Graduation fee and diploma, $10. Masters' Degree and Diploma, $10.

The Study Rooms in the Main College are so arranged that two students occupy the same study. The Dormitories are intended to accommodate only one person, so that each student has his own private sleeping room. These are furnished with spring bedsteads. The student must supply himself with all other furniture. Students are responsible for damage to their rooms, whether it be done when they are present in the room or absent from it.

If a student occupy a study by himself, the charges for room-rent and private fuel will be doubled.

An extra charge ranging from $5 to $10 per term is charged for rooms in the West College.

An additional charge is made for rooms cared for by the Institution.

Young men in the Collegiate Department, who so desire, can have furnished rooms in the West College, with board in the Academy; young women in the same department room and board in the Institute. The charge for the year is $260.

The assignments of rooms are for one year, and are made the first Monday morning in June, immediately after the devotional exercises in Bucknell Hall. Students from a distance will save inconvenience by applying to the Registrar for a room before the term opens.

In the Laboratories students pay for chemicals used and for apparatus broken or damaged. In the chemical laboratory this will amount to about $10 for Analytical and $3 for General Chemistry, depending upon the care of the student.

A small fee is charged also in each of the elective courses in the department of Organic Science, and in Surveying and Engineering, for the use of instruments and for material used.

Before entering upon the experimental courses students must deposit with the Registrar security for materials used.

These charges must be paid in advance at the beginning of each term.

No student is entitled to his place in his class until he has made settlement with the Registrar.

Students can board in clubs at a cost of from $2.00 to $2.50 per week. Excellent boarding can be obtained in private families at $3.00 or $4.00 per week, or at the table of the Bucknell Academy at $3.00 per week. Washing is done at 25 cents per week. No boarding is allowed in the College building.

Fifty-Third Annual Commencement.

Wednesday, June 24, 1903.

HONORS AT GRADUATION.

ORATIONS SUMMA CUM LAUDE.

George Ripley Bliss,
Hannah Goodman,
Reese Harvey Harris,
Mary Lila Long,
Walter Kremer Rhodes,
Helen Agatha Selinger,
Carl Wayland Tiffany.

ORATIONS MAGNA CUM LAUDE.

Harry Edmund Bilger,
Elva Sarah Coleman,
John Belmont Cook,
Sylvester Dunlap,
Emma Rebekah Ebling,
Mansfield French Forbell,
Mary Alma Garrison,
Abram Cyrus Gunter,
Sarah A. Hart,
William Lawrence Kalp,
Ida Eveline Luchsinger,
Cloyd Nillis Steininger,
Ernest Launcelot Taylor,
Robert Josiah Terrell,
Howard King Williams.

ORATIONS CUM LAUDE.

Sarah Hamill Ayres,
Irwin Albert Bartholomew,
Remembrance Forde Bresnahan,
Alice Jessamine Butler,
Alexander Forest Dershimer,
Charles Fred Eisenmenger,
Frederic Blair Jaekel,
Wallace Bruce Kester,
Harry Sill Mauser,
Grace Browning Roberts,
Morton Rutherford Sheldon,
Charlotte Elliott Shields,
John McKissick Snow,
Roger Henry Williams.
John Adam Young.

ORATIONS.

John Weiser Bassler,
Walter Bertolette,
Joanna Boyce,
John Jay Brandt,
Merle Moe Edwards,
James Villard Frampton,
Joseph Ellsworth Glaspey,
James Lloyd Kalp,
William Nogel Marsh,
Robert Simington Moorhead,
Walter Wetmore Senn,
Jacob Frederick Sigel,
Clara Jane Slifer,
Martha Jane Thomas,
Eli Slifer Walls.

MASTER OF ARTS.

Frank Anderson,
Irving Herbert Buckminster,
George Fenner Baker,
Simon Ward Gilpin,
Hannah Goodman,
Reese Harvey Harris,
John Andrew Herman,
Elmer Ellsworth Hess,
Thomas Johnson Morris,
Edgar Reed,
Myra Amy Sprague,
Mary Hursh Unger.

MASTER OF SCIENCE.

Albert Rowland Garner,
Edgar Willis Maneval.

BACHELOR OF ARTS.

George Ripley Bliss,
John Jay Brandt,
Remembrance Forde Bresnahan,
Emma Rebekah Ebling,
Charles Fred Eisenmenger,
Mansfield French Forbell,
Mary Alma Garrison,
Joseph Ellsworth Glaspey,
Hannah Goodman,
Abram Cyrus Gunter,
Reese Harvey Harris,
Samuel A. Hart,
William Lawrence Kalp,
Mary Lila Long,
Ida Eveline Luchsinger,
Charlotte Elliott Shields,
John McKissick Snow,
Harvey Elmer Stabler,
Robert Josiah Terrell,
Carl Wayland Tiffany,
Howard King Williams.

BACHELOR OF PHILOSOPHY.

Henry Edmund Bilger,
Alice Jessamine Butler,
Elva Sarah Coleman,
Sylvester Dunlap,
James Villard Frampton,
James Lloyd Kalp,
Walter Bruce Kester,
Walter Kremer Rhodes,
Grace Browning Roberts,
Morton Rutherford Sheldon,
Martha Jane Thomas,
Roger Henry Williams,
John Adam Young.

BACHELOR OF SCIENCE.

Sarah Hamill Ayres,
Irwin Albert Bartholomew,
John Weiser Bassler,
Walter Bertolette,
Joanna Boyce,
John Belmont Cook,
Alexander Forest Dershimer,
Merle Moe Edwards,
Frederick Blair Jaekel,
William Nogel Marsh,
Harry Sill Mauser,
Robert Simington Moorhead,
Helen Agatha Selinger,
Walter Wetmore Senn,
Jacob Frederick Sigel,
Clara Jane Slifer,
Cloyd Nillis Steininger,
Ernest Launcelot Taylor,
Eli Slifer Walls.

HONORARY DEGREES CONFERRED.

MASTER OF ARTS.

The Honorable John E. Dubois,
The Honorable Henry Clay Frick,
James Simmons Swartz, Esquire.

DOCTOR OF DIVINITY.

The Reverend Joseph Frederic Bartlett, A. M., B. D.
The Reverend Henry Clay Munro, A. M., B. D.

DOCTOR OF LAWS.

Rear-Admiral Charles Edgar Clarke, United States Navy.

Commencement Addresses.

Baccalaureate Sermon, ... The President.
Sermon, Education Society ..... Professor Alvah S. Hobart, D. D.
Address before the Literary Societies, ...
..... Merrill Edwards Gates, LL. D.
Address before the Alumni Association, ...
..... Frederick Bertolette, A. M., Esq.
Poem before the Alumni Association, ...
..... Dean John Irven Woodruff, A. M.
Address, Academy Commencement, ...
..... Professor Llewellyn Phillip, A. M.
Address, Institute Commencement, ... Wayland Hoyt, D. D., LL. D.
Address to the College Class, ... The President.

TEACHERS' PERMANENT CERTIFICATES.

Awarded by the State of Pennsylvania to Graduates of Bucknell College, 1902-1903:

Samuel A. Hart,
Anna E. Noaker,
Arthur A. Smith,
Harvey E. Stabler,
Ernest L. Taylor,
William David Zerby.

THE ACADEMY.

INSTRUCTORS AND OTHER OFFICERS.

JOHN HOWARD HARRIS, PH. D., LL. D.,
PRESIDENT OF THE UNIVERSITY.

THOMAS A. EDWARDS, A. M., PRINCIPAL.
LATIN.

FRANK MORTON SIMPSON, SC. M.,
SCIENCE.

MARTIN LINNAEUS DRUM, PH. B.,
MATHEMATICS.

FRANK EUGENE BURPEE, A. M.,
GREEK.

WILLIS EDGAR MANEVAL, PH. M.,
SCIENCE AND HISTORY.

MANSFIELD FRENCH FORBELL, A. B.,
ENGLISH.

WILLIAM CHRISTIAN GRETZINGER, PH. B.,
REGISTRAR OF THE UNIVERSITY.

Students.

THE FOURTH FORM.

CLASSICAL.

NAME.	RESIDENCE.	ROOM.
Winfield Scott Booth,	*Philadelphia.*	No. 31, West Wing
Joseph Wells Henderson,	*Montgomery.*	Montgomery
George Washington Kerschner,	*Trevorton.*	No. 30, West Wing
Ralph Llewellyn Thomas,	*Lewisburg.*	East Market Street
Warren Tyson Wilson,	*DuBois.*	No. 19, East Hall
Charlemagne Tower Wolfe,	*Lewisburg.*	North Third Street

LATIN SCIENTIFIC.

NAME.	RESIDENCE.	ROOM.
Charles Crawford Hindman,	*DuBois.*	No. 19, East Hall
Isaac Crouse Martin,	*Huntingdon.*	No. 11, East Wing
Claude Graves Moore,	*East Stroudsburg.*	No. 17, East Hall
Kendrick Lucian Osborn,	*Clyde, N. Y.*	No. 12, Main Hall
Edwin Leroy Royer,	*Rebersburg.*	No. 10, West College
Will Carleton Sprout,	*Picture Rocks.*	No. 11, Main Hall

SCIENTIFIC.

NAME.	RESIDENCE.	ROOM.
Morrison Billheim,	*Turbotsville.*	No. 6, Main Hall
James Andrews Groff,	*Lewisburg.*	Lewisburg
Clyde Henry Haines,	*Winfield.*	Winfield
David Jackson Hawk,	*Tower City.*	No. 9, East Hall
Harold Burrows Henderson,	*Montgomery.*	Montgomery
John Raymond Kerr,	*Mooresburg.*	No. 3, Main Hall
Edwin Island Lawshe,	*Lewisburg.*	South Third Street
Barton Runyon Savidge,	*Turbotville.*	No. 6, Main Hall
William McClenathan Simington,	*Mooresburg.*	No. 10, Main Hall
Donald A. Steele,	*Washington.*	No. 19, East Wing
Spencer Barber Taylor,	*Mifflinburg.*	No. 17, East Hall

THE THIRD FORM.

CLASSICAL.

NAME.	RESIDENCE.	ROOM.
John William Grandfield,	*Clarksboro, N. J.*	No. 7, Main Hall
William Leiser,	*Lewisburg.*	North Fourth Street
Wallace McLaughlin,	*Philadelphia.*	No. 32, East Wing
Charles Nyberg,	*New York City.*	No. 28, West Wing
Charles Stillwell Roush,	*Winfield.*	Winfield

NAME.	RESIDENCE.	ROOM.
ALBERT WAFFLE OWENS,	*Lewisburg.*	South Sixth Street
WALTER EARL TEASDALE,	*Lewistown.*	No. 8, Main Hall

LATIN SCIENTIFIC.

NAME.	RESIDENCE.	ROOM.
JOHN J. WILLIAMS,	*Mt. Carmel.*	No. 5, Main Hall

SCIENTIFIC.

NAME.	RESIDENCE.	ROOM.
S. WOODS CALDWELL,	*Watsontown.*	Watsontown
JAMES WILSON FERRELL,	*New Freeport.*	No. 11, Main Hall
WILLIAM EDWARD FOWLER,	*Montgomery.*	Montgomery
WALTER SYLVANUS FRICK,	*Lewisburg.*	North First Street
THOMAS FAY GEAR,	*Knoxville.*	No. 22, East Hall
NORMAN BUCKLAND GARDNER,	*Sunbury.*	Sunbury
IVAN E. KELTS,	*Knoxville.*	No. 21, East Hall
LARUE KNOX,	*Knoxville.*	No. 22, East Hall
CHARLES AUGUSTUS NICELY,	*Watsontown.*	Watsontown
RAY ARTEMUS OSGOOD,	*Rose, N. Y.*	No. 12, Main Hall
GEORGE E. ROBERTS,	*Lewisburg.*	South Third Street
KLEIN HARLAND ROYER,	*Rebersburg.*	No. 10, West College
JOHN OAKLEY SIMINGTON,	*Mooresburg.*	No. 10, Main Hall
JOHN ARCHIE WHITE,	*Knoxville.*	No. 21, East Hall

THE SECOND FORM.

NAME.	RESIDENCE.	ROOM.
Frederick Blaser,	*Philadelphia.*	No. 31, West Wing
Ned Logan Brown,	*Pleasant Unity.*	No. 15, East Hall
William Vickey Coxey,	*Sunbury.*	Sunbury
Theodore Davis, Jr.,	*Donora.*	No. 18, East Hall
Norman Robert Davis,	*Allenwood.*	Allenwood
William Ralph Deppen,	*Treverton.*	No. 35, West College
Charles Furman Dunkle,	*Lewisburg.*	Lewisburg
Scott Pardoe Hilliard,	*Montgomery.*	Montgomery
Francis Harper Hutchinson,	*Sunbury.*	Sunbury
Arthur William King,	*Philadelphia.*	No. 4, Main Hall
Edward N. McMullen,	*Newark, N. Y.*	No. 7, Main Hall
Howard McClure Neff,	*Sunbury.*	Sunbury
Herbert Murray Osborn,	*Milton.*	Milton
Edwin John Radcliffe,	*Patton.*	
Clyde Sanders,	*Schreiners.*	Schreiners
DeLos Herrick Thomas,	*Canton.*	No. 10, East Hall
Phillip C. Thomas,	*Scranton.*	No. 32, East Wing
Reuben Nieman Vogle,	*DuBois.*	No. 10, East Hall
Max C. Wiant,	*Connellsville.*	No. 4, Main Hall

THE FIRST FORM.

NAME.	RESIDENCE.	ROOM.
WILLIAM ROBERT BAKER,	*Tamaqua.*	No. 23, East Hall
LEON ELLIS KONKLE,	*Montoursville.*	No. 20, East Hall
CARL ROBBINS,	*Scranton.*	No. 11, East Hall
ARTHUR S. WAHL,	*Reading.*	No. 5, Main Hall
ANDREW WOLFE,	*Lewisburg.*	Lewisburg

STUDENTS PURSUING SELECT STUDIES.

NAME.	RESIDENCE.	ROOM.
ALBERT DANIEL BARTON,	*Philadelphia.*	No. 13, East Hall
CHARLES RODMAN BARTON,	*Philadelphia.*	No. 13, East Hall
WILLIAM ALLEN BLAIR,	*Wellsboro.*	No. 26, West Wing
WALTER CAMPBELL,	*Kane.*	No. 18, East Hall
NED F. CHURCH,	*Glen Iron.*	No. 10, West College
WILLIAM STEWART DUNCAN,	*Duncannon.*	No. 14, East Hall
ENRIQUE ECHANOVE,	*Progresso, Yucatan.*	No. 8, East Hall
AMOS ROBERT EDGCOMB,	*Galeton.*	No. 21, West College
AUGUSTUS DUNBAR EPPLER,	*Mt. Carmel.*	No. 9, West Wing
HOWARD CLOYD FLEMING,	*Trout Run.*	No. 20, West Wing
IRA CLYDE GASS,	*Sunbury.*	Sunbury
JOHN GIBNEY,	*Coatesville.*	No. 18, East Hall
JACOB OGDEN GROOVER,	*Lewisburg.*	Lewisburg

NAME.	RESIDENCE.	ROOM.
William Leslie Horan,	*Lewisburg.*	North Second Street
William Currie Hulley, Jr.,	*Lewisburg.*	South Fourth Street
Wilmer C. Johnson,	*Downingtown.*	No. 8, Main Hall
Herman Henry Klerx,	*Sunbury.*	Sunbury
Theodore Kamensky,	*Clearwater, Fla.*	No. 8, East Hall
Girton Keller Lenhart,	*Lewisburg.*	Lewisburg
Harvey R. Martz,	*Sunbury.*	Sunbury
Edward Henry Maher,	*Tower City.*	No. 9, East Hall
James Edward McKeever,	*Irwin.*	No. 95, West College
Charles Edward Michener,	*Dewart.*	Dewart
William Emmet Martin,	*Saltsburg.*	No. 18, East Hall
Emory Ledrue Miller,	*Sunbury.*	Sunbury
Frank McDonald,	*New Orange, N. J.*	No. 17, East Wing
Harry Snedeker Mitchell,	*Troy.*	No. 18, East Hall
William Prosser,	*Black Diamond, Wash.*	No. 10, East Wing
William Henry Reese,	*Scranton.*	No. 26, West Wing
William A. Shipp,	*Shamokin.*	No. 20, West Wing
Harry Benjamin Scheirer,	*Mahanoy City.*	No. 81, West College
Obdulio Suros,	*Manzanillo, Cuba.*	No. 44, West College
Joseph R. Tannenbaum,	*Nanticoke.*	No. 55, West Wing
Daniel Rishel Weber,	*Sykesville.*	No. 32½, East Wing

SUMMARY.

The Fourth Form, Classical	6	
Latin Scientific	4	
Scientific	13	
		—23
The Third Form, Classical	7	
Latin Scientific	1	
Scientific	14	
		—22
The Second Form	19	
The First Form	5	
Students Pursuing Select Studies	34	
		—58
Total in Academy	103	

Students enrolled in other departments of the University who receive instruction in the Academy classes:

Greek of the Fourth Form	1	
Third Form	4	
Latin of the Second Form		
Third Form	2	
Fourth Form	3	
Total receiving instruction in Academy classes.	113	

Courses of Study.

The Academy is designed to fit pupils for College, for Teaching, or for Business. It offers three Courses of Study.

I. The Classical Course extends through four years and is arranged to meet the requirements for admission to College. The study of Latin begins with the First Form and continues for four years. The study of Greek begins with the Third Form and continues for two years. Notwithstanding the time given to these branches of study, fully one-half of the time of the entire course is devoted to English, Historical, Mathematical, and Scientific subjects.

II. The Latin Scientific Course extends through four years and furnishes adequate preparation for either division of the Philosophical Course in College. The First and Second Forms of the Classical and the Scientific Courses are identical. In the Third and Fourth Forms, the student preparing for the Latin Division substitutes Historical and Scientific subjects for the Greek of the Classical Course; while the student preparing for the Greek division substitutes the Greek of the Third and Fourth Forms for the Latin and includes Historical and Scientific subjects.

III. The Scientific Course extends through four years and prepares for the courses in General Science in Biology, in Chemistry and in Civil Engineering in College. For the Vergil and the Cicero of the Latin Scientific Course, it substitutes one term of Advanced English, one term of Chemistry, and one year of German.

Students who are able to accomplish more work in the allotted time than is required by the Course, are encouraged to add the special studies. They may also pursue extra honor work in the Classics by reading, under an instructor's direction, Cæsar's Civil War, Cicero's Letters, or Vergil's Eclogues, and Books IV, V, VI, of the Iliad, or the Cyropædia.

Students will be admitted to the Form for which they are prepared.

Students who do not intend to enter College, but who desire a comprehensive academic training, will find the Scientific or the Latin Scientific Course, well adapted to prepare them for teaching or for business.

Special classes in History and Literature will be maintained to meet adequately the requirements of applicants for examination and registration as students at law, under the rules adopted by the Supreme Court of Pennsylvania.

Curricula.

1. THE CLASSICAL COURSE.

FIRST FORM.

I. Term—Arithmetic, Penmanship,
English Grammar, Orthography,
History of the United States, Reading.
Latin,

II. Term—Arithmetic, Penmanship or Drawing,
English Grammar, Etymology,
General History, Reading.
Latin,

II. Term—Arithmetic, Penmanship or Drawing,
English Language, Etymology,
General History, Reading.
Latin,

SECOND FORM.

I. Term—Higher Arithmetic, Penmanship or Drawing,
Latin—Lessons, Literature and Composition,
History of Greece, Bible.

II. Term—Book-keeping, Penmanship or Drawing,
Latin—Grammar, Literature and Composition,
Gate to Cæsar, Bible.
History of Rome,

II. Term—Physical Geography, Penmanship or Drawing,
Cæsar, Literature and Composition,
Rhetoric, Bible.
Elementary Botany,

THIRD FORM.

I. Term—Algebra, Composition,
Latin—Cæsar, Literature and Elocution,
Composition, Bible.
Greek—Lessons,

II. Term—Algebra, Vergil's Æneid, Greek—Lessons, Grammar, Composition, Literature and Elocution, Bible.

III. Term—Algebra, Vergil's Æneid, Xenophon's Anabasis, Composition, Literature and Elocution, Bible.

FOURTH FORM.

I. Term—Plane Geometry, Latin—Vergil's Æneid, Prosody, Xenophon's Anabasis, Greek Prose Composition, Literature and Oratory, Elocution, Bible.

II. Term—Plane Geometry, Latin—Cicero's Orations, Prose Composition, Homer's Iliad, Literature and Oratory, Elocution, Bible.

III. Term—Physics, Cicero's Orations, Greek—Homer's Iliad, Prose Composition, Literature and Oratory, Elocution, Bible.

II. THE LATIN SCIENTIFIC COURSE.

FIRST FORM.

I. Term—Arithmetic, English Grammar, History of the United States, Latin, Penmanship, Orthography, Reading.

II. Term—Arithmetic, English Grammar, General History, Latin, Penmanship or Drawing, Etymology, Reading.

III. Term—Arithmetic, English Language, General History, Latin. Penmanship or Drawing, Etymology, Reading.

SECOND FORM.

I. TERM—Higher Arithmetic, History of Greece, Latin—Lessons, | Penmanship or Drawing, Literature or Elocution, Bible.

II. TERM—Book-keeping, Latin—Grammar, Gate to Cæsar, History of Rome, | Penmanship or Drawing, Literature and Elocution, Bible.

III. TERM—Physical Geography, Cæsar, Rhetoric, Elementary Botany, | Penmanship or Drawing, Literature and Elocution, Bible.

THIRD FORM.

I. TERM—Algebra, Latin—Cæsar, Composition, History of England, | Composition, Literature and Elocution, Bible.

II. TERM—Algebra, Vergil's Æneid, Literature, | Composition, Literature and Elocution, Bible.

III. TERM—Algebra, Vergil's Æneid, Civil Government, | Composition, Literature and Elocution, Bible.

FOURTH FORM.

I. TERM—Plane Geometry, Latin—Vergil's Æneid, Prosody, Physiology, or German, | Literature and Oratory, Elocution, Bible.

II. TERM—Plane Geometry, Latin—Cicero's Orations, Prose Composition, Astronomy, or German, | Literature and Oratory, Elocution, Bible.

III. TERM—Physics, Cicero's Orations, Solid Geometry, or Geology, or German, | Literature and Oratory, Elocution, Bible.

III. THE SCIENTIFIC COURSE.

FIRST FORM.

I. TERM—Arithmetic, Penmanship,
English Grammar, Orthography,
History of the United States, Reading.
Latin,

II. TERM—Arithmetic, Penmanship or Drawing,
English Grammar, Etymology,
General History, Reading.
Latin,

III. TERM—Arithmetic, Penmanship or Drawing,
English Language, Orthography and Etymology,
General History, Reading.
Latin,

SECOND FORM.

I. TERM—Higher Arithmetic, Penmanship or Drawing,
Latin—Lessons, Literature or Elocution.
History of Greece, Bible.

II. TERM—Book-keeping, Penmanship or Drawing,
Latin—Grammar, Literature and Elocution,
Gate to Cæsar, Bible.
History of Rome,

III. TERM—Physical Geography, Penmanship or Drawing,
Cæsar, Literature and Elocution,
Rhetoric, Bible.
Elementary Botany,

THIRD FORM.

I. TERM—Algebra, Composition,
Latin—Cæsar, Literature and Elocution,
Composition, Bible.
History of England,

II.	TERM—Algebra,	Composition,
	Chemistry,	Literature and Elocution,
	Literature,	Bible.
III.	TERM—Algebra,	Composition,
	Advanced English,	Literature and Elocution,
	Civil Government,	Bible.

FOURTH FORM.

I.	TERM—Plane Geometry,	Literature and Oratory,
	German,	Elocution,
	Physiology,	Bible.
II.	TERM—Plane Geometry,	Literature and Oratory,
	German,	Elocution,
	Astronomy,	Bible.
III.	TERM—Physics,	Literature and Oratory,
	German,	Elocution,
	Solid Geometry, or	Bible.
	Geology,	
	Latin Review,	

TEXT BOOKS.

ENGLISH LANGUAGE AND LITERATURE:—Reed's Word Lessons; Kellogg and Reed's Word Building; Sheldon's Advanced Lessons in English; Reed and Kellogg's Higher Lessons; Butler's Composition; Hill's Beginnings of Rhetoric and Composition; Pancoast's Representative English Literature; English and American Classics, various editions.

MATHEMATICS:—Milne's Standard Arithmetic; Wentworth and Hill's Higher Arithmetic; Durell and Robbins' Complete Algebra; Wentworth's Geometry; Bryant's High School Book-keeping.

HISTORY AND GOVERNMENT:—McLaughlin's United States; Myers' General; Montgomery's English; Myers' Greece; Myers' Rome; Macy's Civil Government.

GREEK:—White's First Greek Book; Goodwin's Greek Grammar; Goodwin's Anabasis; Seymour's Iliad; Pearson's Prose Composition.

LATIN:—Collar and Daniell's First Latin Book; Collar's Gate to Cæsar; Allen and Greenough's Grammar; Bennett's Latin Prose; Allen and Greenough's New Cæsar; Greenough and Kittredge's Vergil; Allen and Greenough's New Cicero.

SCIENCE:—Davis's Physical Geography; Carhart & Chute's Physics; Young's Lessons in Astronomy; Martin's Briefer Course in Physiology; Le Conte's Elements of Geology; Arey's Chemistry.

Methods of Instruction.

The Preparatory Curriculum naturally falls into seven principal lines of study, viz: English, German, Latin, Greek, History, Mathematics, and Natural Science. These combine, in due proportion, the cultural, the disciplinary, and the practical elements of intermediate education. The two great divisions of modern study, the Classical and the Scientific, are accorded adequate and appropriate preparation. The subjects, facilities, and methods of the various departments are explained below.

I. THE ENGLISH LANGUAGE.

A thorough grounding in the principles of English Grammar is indispensable to the student's progress in the subsequent language studies. The continuous application of this knowledge in Composition, and the constant comparison with the forms and idioms of the Ancient Languages, prepare the way for the study of elementary Rhetoric, and the appreciative reading of English and American Literature.

II. THE LATIN LANGUAGE.

Careful drill is given in the declensions and conjugations, in the use of the moods and the sequence of tenses, in the ready reading of the Latin text, in sight reading and in accurate translation into idiomatic English. Attention is given to the important personal, historical, and political elements in the writings of Cæsar and Cicero. In Vergil, the student is introduced to the poetry, legend, religion, and art of Rome. He is taught to investigate the allegorical, archæological, and mythical allusions of the Æneid, and to appreciate it as the mirror of the life of the Empire. Latin prosody is taught first from the text, and then from the grammar.

III. THE GREEK LANGUAGE.

The first two terms of the Third Form are spent in a thorough

study of White's First Greek Book. In the third term Xenophon's Anabasis is read, and special attention is given to acquiring a vocabulary and to the forms and syntax of nouns, pronouns, and adjectives. In the first half of the Fourth Form the reading of Xenophon is continued. During the last half year Homer's Iliad is read, and the difference between Homeric and Attic Forms is noted. Throughout the course Prose Composition is frequently required for the purpose of acquiring a vocabulary and a knowledge of syntax.

IV. THE GERMAN LANGUAGE.

One year's study of German is required of members of the Fourth Form of the Scientific Course. The same work may be elected by the members of the corresponding form of the Latin Scientific Course instead of the science subjects of that course. In the study of German, the aim is to acquaintance with declensions and conjugations; facility of pronunciation; quick recognition of words both by the eye and the ear; as extensive a vocabulary as the time will allow; and by constant practice the laying of a foundation for reading, writing, and speaking the language.

V. HISTORY.

The course in History includes a survey of the History of the United States, of England, of Greece, and of Rome. The aim is to acquaint the student with the life, the genius, the institutions, and the achievements of the respective peoples, and their part in the wider history of mankind.

Additional courses are offered in Ancient, Mediaeval, and Modern History and honor courses in the historical readings required of applicants for examination and registration as students at law by the Supreme Court of Pennsylvania.

Civil Government is taught as a preparation for intelligent citizenship. The origin and growth of our institutions, the functions of the various departments of the National, State, and local governments, the political history of the people, the interpretation and construction of the Constitution, are presented and discussed.

VI. MATHEMATICS.

Arithmetic. To students who are fitting themselves for busi-

ness, a course is given in practical business Arithmetic, involving all the ordinary problems and practices in the business world. To those who are preparing for college or for teaching, instruction is given in the theory and science of Arithmetic. Pupils are expected to master the principles and then to formulate their own rules.

Algebra. The course extends through one year, and includes a knowledge of the fundamental principles, Factoring, Divisors, and Multiples, Fractions, Equations, Involution, Evolution, Theory of Exponents, Radicals, and Quadratic Equations. Daily Blackboard work serves to apply the principles taught. The student is required both to know the methods of the solution of problems and also to explain the operation to the class.

Plane and Solid Geometry. The instruction consists in daily recitations for three terms on the Theorems and Problems given in the text-book, with original demonstrations of the same propositions by the students from hints and figures given in the class-room. Besides this, considerable attention is given to the solution of original Propositions, and the application of principles thus learned to the solution of numerical problems.

Book-keeping. A practical introduction to the science of accounts is secured in the term devoted to mastering the principles of Double Entry Book-keeping. Careful attention is given to business forms, to the usages of Banks, and to the elements of Commercial Law. The subject may be pursued in its more extended and intricate applications by a second term's work, open to properly qualified students.

VII. SCIENCE.

Physical Geography lays a foundation for subsequent work in all sciences. It surveys the earth's physiography, climate, atmosphere, fauna, flora, ocean tides and currents, and geological agencies. Special attention is given to the physical features of the United States. The subject is illustrated by drawings, photographs, colored and relief maps, and specimens from the Museum.

Botany is taught by text-book, field exercise, plant analysis, and weekly lectures. A brief outline is first obtained of plant structure, physiology, growth, and reproduction. The subject is then reviewed by daily drill in analyzing, recording, classifying, and preserving specimens. The recorded analysis of fifty plants is required. Lectures explaining special forms of vegetable growth, the flora of this country, the cultivation, uses, and history of plants complete the work.

Physiology. Every effort is made to impart clear ideas of the structure, parts, and functions of the human body. Special attention is given to the chemistry of foods, the laws of health, the effects of stimulants and narcotics. Suggestions are constantly made as to poisons and their antidotes, the care of the sick, disinfection and sanitation, and accidents and emergencies. Charts, manikin, and preparations are used in class.

Physics. The student is grounded in the elements of mechanics and physics. The apparatus of the College Laboratory is available for use. The historical beginnings of each subject, and subsequent development, are sketched in brief lectures. No pains are spared to familiarize the pupil with the laws of these sciences, by instruction, experiments, review, and repeated examination. The truth of principles is proved, except where the demonstration involves mathematics of the higher course in College.

Astronomy. Descriptive Astronomy discusses the earth's relations to the solar system, the masses, motions, and orbits of each member of it; the causes and consequences of the motions of the earth; general boundaries of the constellations of the Zodiac and northern heavens; the theories of comets, meteors, and nebulæ. Charts, star maps, globes, and other apparatus are used, and the student is afforded privileges of observation in the College Observatory.

Geology. The student masters the elements of lithological, structural, dynamic, and historical Geology. Specimens of various rocks and minerals are handled in class; their composition, characteristics, and place in nature are explained; the structure of the earth in its present form is studied; the history of its evolution, the age and characteristics of its strata, the chief geological features of each continent, and the forces at work, and that have worked to produce changes, are considered.

VIII. ORATORY.

Class Exercises. Members of the Fourth Form prepare and deliver two original orations each term. All other students have regular exercises in Composition and Declamation throughout the year. Public exercises are held on Saturday morning, before the faculty and students of the Academy. Visitors are cordially invited to these exercises.

In addition to the private rehearsals for the work above indicated, all students receive weekly instruction in Elocution. The course includes careful drill in the Elementary sounds, in Articulation, and in

expression; in Analytical Reading, including the Bible and Hymns; and the reading of Shakspere.

IX. SPECIAL BRANCHES.

Bible Study. The study of the Bible is pursued as a regular weekly recitation throughout the Second, Third, and Fourth Forms, in all Courses of study. A scheme of study is arranged at the beginning of each year. It is intended that the successive schemes for the various years of the course will cover the Life of Christ, the historical portions of the Old Testament foreshadowing the Christ, and the history of the Apostolic Church.

Literature Study. The reading and study of the masterpieces of English and American Literature is maintained in the Second, Third, and Fourth Forms by means of weekly recitations and conferences. The work required is identical with the "Scheme of Uniform Entrance Examinations in English Language and Literature," adopted by the "Association of Colleges and Preparatory Schools of the Middle States and Maryland." It comprises (a) careful readings of representative works of certain authors, as literature; (b) thorough study as to "subject-matter, form, and structure" of other selections. Regular examinations will determine the student's proficiency.

The Study of Music may be pursued by Academic students under the instruction of Professor E. Aviragnet and his assistants, of the School of Music.

Drawing. All students of the Academy may receive throughout the year weekly lessons in Free-hand Drawing and Penmanship without extra charge. Special individual instruction in Drawing in the Art Studio is afforded at twenty-four dollars per annum.

X. HEALTH AND PHYSICAL CULTURE.

The Tustin Gymnasium affords opportunity for physical exercise. The Directors of the Gymnasium give regular class exercises to the students of the Academy. Attendance upon physical training in the Gymnasium is obligatory during the Winter Term.

The Athletic Association of the Academy has been formed to encourage and regulate athletic sports. The Association is allowed to arrange match games with other similar bodies by first securing the consent of the Principal.

PUBLIC EXHIBITIONS.

THIRD FORM.

The Public Exhibition in Declamation by the Third Form will take place on Saturday evening, April 16th, 1904, in Bucknell Hall.

FOURTH FORM.

The closing exercises of the Academy will be the Public Exhibition in Oratory of the Fourth Form, on Tuesday morning, June 21st, 1904.

General Information.

ADVANTAGES.

To the student seeking preparation for College, the Academy offers unusual inducements. Its proximity to the College secures to him an atmosphere of study, acquaintance with the guides and companions of his future course, and the benefit of numerous literary exercises to be found only in College towns. He has access to the College Library and Reading Room. The Academy is designed to fit pupils thoroughly for College and Technical Schools, and to lay broad and solid foundations for all subsequent scholarly culture and for the successful conduct of every-day affairs.

GOVERNMENT.

Students are encouraged to regard self-government as the only true government. It will be the constant endeavor to secure uprightness of character, gentlemanly deportment, and diligent application to work, by kind treatment, and high standards in conduct and study.

1. ADMINISTRATION.

1. The general control of the Academy is vested in the President of the University.

2. The government of the Academy, subject to such control, rests with the Principal of the Academy.

3. The government of each Hall is vested in the Instructor in charge, who resides in the Hall and enforces regulations for the Hours of Study, Academy Property, Hygienic Precautions, and General Deportment, and such other prudential regulations as may be ordered by the joint concurrence of the President of the University and the Principal of the Academy.

4. Each instructor shall have charge of his classes with reference to attendance upon recitations. He shall report to the Principal cases of non-attendance, and inexcusable failure on the part of students to prepare regular lessons or special work assigned.

II. VIOLATION OF RULES.

1. Any officer of the Institution becoming cognizant of any violation of the regulations by any pupil shall report the same to the Principal of the Academy, who shall make a record of the fact in a book provided for the purpose.

2. Every violation of the laws and prudential regulations of the Academy will subject the offender to a penalty of demerits, graded according to the flagrancy and frequency of the offense.

3. When the sum of a pupil's demerits equal ten it shall be the Principal's duty to notify the parent or guardian of the offender, specifying the offense; for every additional ten demerits like notification shall be made.

4. Additional disciplinary penalties in the form of reprimand, "campus," suspension, dismissal, or expulsion, according to the necessities of the case, will follow repeated violations.

BUILDINGS AND ROOMS.

The Academy Buildings are described in detail in the introductory pages of the Catalogue.

The Main Building contains, besides its accommodations for other school and boarding purposes, rooms for students. The rooms are designed to accommodate two students each, and are twenty feet by twelve feet, and fourteen feet high. They are subdivided into a study room twelve feet by ten feet, and a sleeping room nine feet square.

The East Hall contains combined study and sleeping rooms, each designed for two students. These rooms are fifteen feet by twelve feet, with high ceilings, and contain two commodious closets and two single wire mattress beds with all necessary furniture.

UNFURNISHED ROOMS.

The Academy has a number of unfurnished rooms for the accommodation of students of mature years and of limited means. No attention by servants is given to these rooms, nor are lights supplied. Two students occupy a study room in common. The sleeping rooms are provided with single bedsteads with wire mattresses. All other furnishing is to be done by the occupants. While second-hand articles of furniture may be obtained here, it will be to the student's advantage to bring from home bedding and carpets. The dimensions of the study rooms are ten feet by twelve feet; of the sleeping rooms, nine feet by nine feet.

ARTICLES REQUIRED.

Each student should be provided with an umbrella, overshoes, table napkins, towels, soap, and other articles usually required for personal comfort. All articles for the laundry should be marked with the owner's name.

BOARDING.

All students from a distance will occupy rooms and will board in the Academy, except for reasons jointly satisfactory to the President of the University and the Principal of the Academy.

The Principal and his family, the Instructors, and the Matron live in the building, take their meals with the boarders, and strive in all possible ways to secure the welfare and happiness of the students. The instructors occupy rooms adjacent to the students' apartments. The appointments of the Dining Room, the character of the table supplies, the household service in general, are designed to furnish the comforts of a first-class boarding-house. So far as may be warranted by the deportment of the students, there will be absent from the home-life of the school all needless uniformity and irksome limitations, which disregard the reasonable individual preference of pupils.

The Academy gives to furnished rooms daily and complete attention, provides and washes all bedding and bed clothing, and supplies and cares for all lights.

Engagements for board and rooms are expected to continue without change to the end of the school year for which they are made.

APPLIANCES.

The Academy is in possession of excellent apparatus for instruction. A select Reference Library, containing Encyclopedias, Lexicons, Dictionaries, Atlases, and various other helps, is accessible to students at all hours. The Classical Recitation Rooms are provided with Kiepert's Wall Maps of Ancient Geography, and with Reinhard's Album of Ancient Antiquities, mounted. Metric apparatus, Maps and Globes render assistance in other directions.

The apparatus of the College also is accessible to the classes for purposes of experiment and illustration.

The College Library, numbering 24,000 volumes, is available for all students.

SCHOOL-ROOM.

In order to insure favorable conditions of study, the Academy maintains a commodious and well-appointed school-room. The school life centers in this room. Here, except when engaged in recitations, day students prepare their work, unless excused for a part of the time, for good cause; here also all the younger students of the lower forms prepare for their recitations. Advanced students and those of maturer years, who have acquired habits of independent study, are granted the privilege of preparing part of their work in their rooms, provided that they maintain high scholarship and excellent deportment.

HOURS.

The time devoted to study and recitation amounts to nine hours every week-day, except Saturday, when it is only two hours. This time should be sacred to its purpose. Parents of day pupils are requested to co-operate with the school in securing attention to evening study hours, and to avoid furnishing occasions or granting excuses for absence.

Students from a distance should be in Lewisburg on the day preceding the opening of each term, and no student should leave until the term has closed. Punctuality in attendance is essential to success in school work.

For terms and vacations, see the Calendar of the University.

STANDING AND PROMOTIONS.

The weekly averages of marks for recitations are recorded, and also failures in conduct and attendance. The scale for such markings range from 10, or perfect, to 0, or inexcusable failure. Unexcused absences count as zero.

Monthly and term examinations are held in the studies thus far completed, and term reports of the average in scholarship, attendance, and conduct of each student are sent to parents or guardians by the Principal.

No student is promoted to the next higher class whose grade in any study is less than 7.

Students who complete the Preparatory Courses of Study are admitted to standing in corresponding divisions of the Freshman Class in the College, upon the principal's certificate, without examination.

All students who complete in a satisfactory manner any of the

Courses of Study, and who have sustained irreproachable character during their school residence, shall be entitled to the diploma of the Academy.

Students attaining an average standing of 9 are encouraged to take work additional to the Regular Courses of Study.

PRIZES.

THE HARRY S. HOPPER PRIZE.

Mr. Harry S. Hopper, of Philadelphia, Chairman of the Board of Trustees, offers an annual prize for excellence in Composition.

This prize for 1903 was awarded to John Howard Stover.

THE REV. DAVID PORTER LEAS PRIZE.

Rev. David P. Leas, of Philadelphia, Treasurer of Bucknell University, offers an annual prize to that member of the Third Form who shall excel in the Annual Exhibition of Third Form in Declamation.

This prize for 1903 was awarded to Albert Waffle Owens.

THE WILLIAM E. MARTIN PRIZE.

Principal Edwards offers an annual prize, named in honor of Professor William E. Martin, to that member of the Fourth Form who shall pronounce the best oration at the Academic Graduating Exhibition.

This prize for 1903 was awarded to Havard Griffith.

LITERARY SOCIETY.

This is a voluntary organization of students for mutual improvement in literary and oratorical exercises. It has a large and convenient hall in the Main Academy Building, where meetings are held on Friday evenings.

RELIGIOUS SERVICES.

The duties of each day are opened with devotional exercises, which all students are required to attend. Devotional exercises are also held every evening, just before the evening study hour. All

academic students residing on the University campus are required to attend these exercises.

Regular attendance at Sunday-school and upon public worship at some church on Sunday morning, is required; also upon services on Thanksgiving Day, and the Day of Prayer for Colleges. Attendance upon Christian Endeavor or other like Young People's Society, and the mid-week prayer-meetings, while voluntary, is strongly urged upon students.

Parents or guardians are requested to indicate to the Principal the church which they desire their sons or wards to attend.

The Academic students maintain a branch of the Young Men's Christian Association, which holds a weekly prayer-meeting on Tuesday evenings.

Expenses.

EAST HALL.

	Per Annum.
Tuition, Board, Furnished Room, Heat, Light, Care, Washing, and Incidentals	$240 00

MAIN HALL.

Tuition, Board, Unfurnished Room, Heat, Washing, and Incidentals	200 00
Tuition, and Incidentals to day pupils	60 00

All charges are payable to the Registrar of the University in advance, at the beginning of each term, that is, by the 25th of September, 10th of January and 10th of April.

No student is entitled to his place in his class until he has made settlement for the term bills.

An extra charge will be made for washing more than 12 pieces per week.

Students who remain in the Academy during the holiday or spring vacation will be charged at rate of $4.50 per week. Table boarders will be charged the regular rate, $3.00 per week.

Free scholarships covering tuition are provided in all the departments of the University for the children of Ministers of the Gospel *in actual service.*

The expenses for Music and Printing for Exhibitions and Anniversary occasions are paid by the classes for which such expenses are incurred.

For information respecting the Academy, address the President of the University, or the Principal, Thomas A. Edwards, A. M.

THE INSTITUTE.

INSTRUCTORS AND OTHER OFFICERS.

JOHN HOWARD HARRIS, PH. D., LL. D.,
PRESIDENT OF THE UNIVERSITY AND INSTRUCTOR IN PSYCHOLOGY.

EVELINE JUDITH STANTON, PH. M., PRINCIPAL,
AND INSTRUCTOR IN ENGLISH LITERATURE.

ELYSEE AVIRAGNET, A. M., MUS. DOC.,
VOCAL AND INSTRUMENTAL MUSIC AND THE ROMANCE LANGUAGES.

MAUD ELIZABETH HANNA, A. M.,
LATIN AND GERMAN.

JULIET AIKIN,
INSTRUMENTAL MUSIC.

CANDACE WOOD,
ART.

GRACE SLIFER, A. M.,
LATIN AND HISTORY.

MARY ANN HURSH UNGER, A. B.,
ENGLISH.

ESTHER ATHERTON DAVENPORT,
INSTRUMENTAL MUSIC.

EDITH SCHILLINGER,
ELOCUTION AND GYMNASTICS.

VON LEE GOODNOUGH,
VOCAL AND INSTRUMENTAL MUSIC.

HARRIET TALLANT TRACY,
INSTRUMENTAL MUSIC.

FRANK M. SIMPSON, SC. M.,
SCIENCE.

MARTIN LINNAEUS DRUM, PH. B.,
MATHEMATICS.

WILLIAM CHRISTIAN GRETZINGER, PH. B.,
REGISTRAR.

Directory of the Alumnae.

OFFICERS OF THE ALUMNAE.

President, Mrs. D. Bright Miller.
Vice-President, Miss Ella Lawshe.
Recording Secretary, Miss Maud E. Hanna.
Corresponding Secretary, Miss Ruth Shorkley.
Treasurer, Miss Minnie Darlington.
Board of Managers.
The Officers of the Association, and Mrs. Martha Wolfe, Miss Emma Eag, Miss Eveline J. Stanton.

OFFICERS OF THE LEWISBURG ALUMNAE CLUB.

President, Mrs Kate McLaughlin Bourn.
Vice-President, Miss Anna Van Gundy.
Secretary, Miss Gertrude Stannert.
Treasurer, Miss Frances G. Scott.
Corresponding Secretary, Miss Anna Van Gundy.

OFFICERS OF THE PHILADELPHIA ALUMNAE CLUB.

President, Mrs. Joseph R. Wood.
Vice-Presidents, Mrs. John Dean, Mrs. I. H. O'Hara.
Recording Secretary, Mrs. John Lynch.
Corresponding Secretary, Mrs. Amos Wakelin.
200 Bullitt Building, Philadelphia.
Treasurer, Mrs. Dewey A. Cobb.
3229 Powelton Avenue, Philadelphia.

The Principal of the Institute will esteem it a favor if any graduate who changes her residence will give notice of her new address. She will also be grateful for any information that will assist in making the directory of the graduates and former students complete.

GRADUATES, CLASS OF 1903.

NAME.	RESIDENCE.
THEORA MAY CAMPBELL,	Lewisburg.
EVA IRENE GINTER,	Lewisburg.
HELEN SIDNEY HOUGHTON,	Lewisburg.
LOUISA MATTIS,	Lewisburg.
MARY ELIZABETH YOUNG,	Lewisburg.

NAMES OF STUDENTS.

GRADUATE STUDENTS.

NAME.	RESIDENCE.	ROOM.
SARAH ETHEL JUDD,	*Lewisburg.*	University Avenue
RACHEL MAY KUNKEL,	*Bucknell.*	Bucknell

THE SENIOR CLASS.

NAME.	RESIDENCE.	ROOM.
IRENE EMMA BARTON,	*Torresdale.*	Institute
JOSEPHINE BROWN,	*Allenwood.*	Allenwood
HELEN IRENE COOKE,	*Denver, Col.*	Institute
LILLIAN KATHERINE GREGORY,	*Luthersburg.*	Institute
EDITH SARAH L. MCNINCH,	*Lewisburg.*	South First Street
NINA ADAMSEN PLIAN,	*Bangkok, Siam.*	Institute
MARY GEORGIANA STANTON,	*Chinchilla.*	Institute

THE FOURTH YEAR CLASS.

NAME.	RESIDENCE.	ROOM.
ELIZABETH BAKER,	*Lewisburg.*	Market Street
JULIA PARTHENIA BROWN,	*Rochester.*	Institute

NAME.	RESIDENCE.	ROOM.
Mary Gudekunst Brown,	*Allenwood.*	Allenwood
Bina Mae Carr,	*North East.*	Institute
Mary Eleanor Halfpenny,	*Lewisburg.*	River Street
Katharine Halfpenny,	*Lewisburg.*	South First Street
Helen Hering,	*Dewart.*	Dewart
Nellie Florence Hool,	*Lewisburg.*	South Second Street
Elsie Owens,	*Lewisburg.*	South Sixth Street
Laura Sharp,	*Philadelphia.*	Institute
Margaret Maria Stoughton,	*Lewisburg.*	Market Street
Dorothy Walls,	*Lewisburg.*	South Third Street
Jeanette Keen Wolfe,	*Lewisburg.*	St. George Street

THE THIRD YEAR CLASS.

NAME.	RESIDENCE.	ROOM.
Katharine Beckley,	*Lewisburg.*	South First Street
Mary Edna Blee,	*Allenwood.*	Allenwood
Mary Matilda Brown,	*Lewisburg.*	Lewisburg
Sadie Emerson Burgess,	*Sadieville, Ky.*	Institute
Lucile Marie Cooke,	*Denver, Col.*	Institute
Nancy Hall Finley,	*Georgetown, Ky.*	Institute
Lois Kathryn Gemmill,	*Allenwood.*	Allenwood

NAME.	RESIDENCE.	ROOM.
Frances Groff,	*Lewisburg.*	Lewisburg
Edith Halfpenny,	*Milton.*	Milton
Charlotte Hulley,	*Lewisburg.*	South Fourth Street
Edith Mae Kunkel,	*Bucknell.*	Bucknell
Caroline Lyon Osler,	*Hughesville.*	Institute
Louise Essick Savidge,	*Sunbury.*	Sunbury
Helen Marie Smith,	*Cleveland.*	Institute
Mary Emma Snyder,	*Winfield.*	Winfield
Mary Ellen Swartz	*Altoona.*	Institute
Amelia Margaret Wensel,	*Lewisburg.*	Lewisburg

THE SECOND YEAR CLASS.

NAME.	RESIDENCE.	ROOM.
Harriet Kremer Bower,	*Lewisburg.*	South Sixth Street
Ruth Young Chapin,	*Milton.*	Milton
Helen Hare,	*Lewisburg.*	University Avenue
Emily Heaton,	*Milton.*	Milton
Mary Heaton,	*Milton.*	Milton
Helen Lucinda Leonard,	*Ansonville.*	Institute
Emma Irene Noll,	*West Milton.*	West Milton
Mildred Jessie Shaffer,	*Lewisburg.*	South Second Street

NAME.	RESIDENCE.	ROOM.
FLORENCE ELIZABETH SHIMER,	*Milton.*	Milton
MARIAM CATHERINE SHIMER,	*Milton.*	Milton

FIRST YEAR CLASS.

NAME.	RESIDENCE.	ROOM.
ANNA KALER DREISBACH,	*Lewisburg.*	South Third Street
ERNESTINE SUSANNA HYATT,	*Lewisburg.*	Market Street
HELEN ABIGAIL OVERHOLT,	*Scottdale.*	Institute

PURSUING SELECT STUDIES.

NAME.	RESIDENCE.	ROOM.
JOSEPHINE BASSETT,	*Lewisburg.*	Academy
PAULINE GRESS BERGER,	*Watsontown.*	Watsontown
EVA MARIE BIDELSPACHER,	*Trout Run.*	Institute
SUSAN REBECCA BIEHL,	*Lochiel.*	Lochiel
RUTH ANGELENE BOTTORF,	*Lemont.*	Institute
RACHEL ALICE BROOKBANK,	*Driftwood.*	Institute
NELLIE LOUISE BROWN,	*Cedar Ledge.*	Institute
TRESSA SEATON BROWN,	*Milroy.*	Institute
GERTRUDE DEXTER CAMP,	*Milroy.*	Institute
FANNY DERR,	*Lewisburg.*	Market Street
MARGARET POLLOCK DOUGAL,	*Milton.*	Milton
MINNIE LOUISE FESSENDEN,	*Glen Iron.*	Institute

NAME.	RESIDENCE.	ROOM.
Ethel Mae Flanigan,	*Tuckahoe, N. Y.*	South Fifth Street
Bessie Mae Farney,	*Runchtown.*	Institute
Mary Jane Fritz,	*Trevorton.*	Institute
Lillie Fromhagen,	*Philadelphia.*	Institute
Fannie Mae Getz,	*Lewisburg.*	Lewisburg
Rosa Gluck,	*Lansford.*	Institute
Esther Belle Godcharles,	*Milton.*	Milton
Nina Krauser Hackenburg,	*Milton.*	Milton
Lulu Elizabeth Haines,	*Winfield.*	Winfield
Minnie Amanda Hokanson,	*Pittsfield.*	Institute
Harriet May Hollingshead,	*Milton.*	Milton
Anna Ethel Johnson,	*Gordon.*	Institute
Nellie McKenzie Kough,	*Newport.*	Institute
Nellie Everett Leaming,	*Cape May City, N. J.*	Institute
Myra Leiberman,	*Milton.*	Milton
Fannie Drue Logan,	*Sunbury.*	Sunbury
Ida Mae Maine,	*Dimock.*	Institute
Mabel G. Maurer,	*Bucknell.*	Bucknell
Emma Roletta McClure,	*McKeesport.*	Institute
Mae Morgan,	*Perth Amboy, N. J.*	Institute
Amy Rebecca Niceley,	*Watsontown.*	Watsontown

NAME.	RESIDENCE.	ROOM.
Alta Loretta Nickel,	*Marion, Ind.*	Institute
Estie Miriam Ocker,	*Lewisburg.*	South Fourth Street
Flossie Edith Pethtel,	*New Freeport.*	Institute
Mary Pierce Poeth,	*Lewisburg.*	Lewisburg
Martha Esther Opp,	*Opp.*	Institute
Alice Elizabeth Raike,	*Doylestown.*	Institute
Lenora May Shamp,	*Lewisburg.*	Lewisburg
Minnie Carpenter Sherrick,	*Mount Pleasant.*	Institute
Olive Smith,	*Sunbury.*	Sunbury
Annie Snyder,	*Turbotville.*	Institute
Kathryn Snyder,	*Lewisburg.*	Market Street
Margaret Johnston Stuart,	*State College.*	Institute
Jessie Florence Swartz,	*Altoona.*	Institute
Elizabeth Laura Taylor,	*Williamsport.*	Institute
Lucy Wolfe,	*Montandon.*	Montandon

SUMMARY.

Graduate Students	2
Senior Class	7
Fourth Year Class	13
Third Year Class	17
Second Year Class	10
First Year Class	3
Pursuing Select Studies	48
Total	100

Courses of Study.

The Bucknell Institute offers to young women three courses of study, each extending over five years. Students are admitted to advanced standing, if, upon examination, they are found to have satisfactory knowledge of the branches which the class they propose to enter has already completed.

Credentials from Graded Schools are accepted in the studies of the First and Second Years.

Credentials are accepted for the Third and Fourth Years from schools whose curricula are equivalent to that of Bucknell Institute; also from accredited private teachers, in studies which are *continued* after entrance.

I. THE LITERARY COURSE.

The Literary Course embraces, in Mathematics, Arithmetic, common and advanced, Algebra and Geometry, plane and solid, and Higher Algebra with Trigonometry and Analytical Geometry as electives; in Latin, two years *required,* and a third year elective with German or French; in German and French, one year each or two of either; and in Italian and Spanish, an optional course; in Science, Physical Geography, Botany, Astronomy, Physics, Physiology, Chemistry, and Geology. In these branches the students have the advantages afforded by the College Observatory, Laboratory, and Museum. The course also includes Rhetoric, Composition, Civil Government, Psychology, Ethics, and History of Art.

Special attention is given to History and Literature, to the former of which six and to the latter of which three terms are devoted.

II. THE CLASSICAL COURSE.

The Classical Course embraces in Mathematics, Arithmetic, Algebra, Geometry, plane and solid, University Algebra, Trigonometry, and Analytical Geometry; in Latin, Grammar and Composi-

tion, Cæsar, Vergil, Cicero's Orations, Cicero de Senectute et de Amicitia, Livy, and Velleius, in all, four years; in GREEK, Grammar and Composition, Xenophon's Anabasis, Homer's Iliad, Lysias' Orations, Plato's Apology, Homer's Odyssey, and the Greek Testament, in all three years; in HISTORY, General History, and Greek and Roman History.

Students who complete the Classical Course are admitted to the Sophomore Class in College as candidates for the first degree in Arts.

III. THE LATIN SCIENTIFIC COURSE.

The Latin Scientific Course corresponds to the Classical course, except that scientific subjects are substituted for the first two years of Greek, and German for the third year of Greek.

Students who complete the Latin Scientific Course are admitted to the Sophomore Class in College as candidates for the first degree in Philosophy.

Students in the fifth year Classical or Latin Scientific course recite to the professors of the College.

SELECT STUDIES.

Students who do not wish to pursue a course of study may elect such subjects in connection with the recitations of the regular classes as they may be qualified to pursue.

REQUIREMENTS FOR ADMISSION.

The required age for admission to the first-year class or to pursue select studies is twelve years, and a proportionate increase of age for admission to advanced classes.

Curricula.

I. THE LITERARY COURSE.

FIRST YEAR.

I. Term—Arithmetic, United States History, English Grammar, | Bible, Composition, Penmanship.

II. Term—Arithmetic, General History, English Grammar, Physical Culture. | Bible, Composition, Penmanship,

III. Term—Arithmetic, General History, English Language. | Bible, Composition, Penmanship.

SECOND YEAR.

I. Term—Latin—Lessons, Rhetoric, Higher Arithmetic, | Bible, Composition, Reading.

II. Term—Eutropius, Latin Grammar, History of Greece, Book-keeping, | Bible, Composition, Reading, Physical Culture.

III. Term—Cæsar's Commentaries, Physical Geography, Botany, History of Rome, | Bible, Composition, Reading.

THIRD YEAR.

I. Term—Cæsar's Commentaries, Algebra, English History, Drawing. | Bible, English Classics, Composition,

II. Term—Vergil, Algebra, Astronomy, Bible, Composition, English Classics, Drawing, Physical Culture.

III. Term—Vergil, Algebra, Quadratics, Civil Government, Drawing. Bible, Composition, English Classics,

FOURTH YEAR.

I. Term—Vergil, *or* German, Geometry, Physiology, Bible, Composition, Drawing, Elocution.

II. Term—Cicero, *and* Latin Prose Composition, *or* German, Geometry, Chemistry, Bible, Composition, Elocution, Physical Culture.

III. Term—Cicero, *or* German, *or* Geometry, Solid, *or* Geology, Bible, Composition, Elocution.

SENIOR YEAR.

I. Term—Psychology, English Literature, French, *or* German, *or* { Solid Geometry, Higher Algebra, Bible, Composition, Elocution.

II. Term—English Literature, History of Art, *or* French, *or* German, *or* Trigonometry, Bible, Composition, Elocution, Physical Culture.

III. Term—Ethics, American Literature, French, *or* German, *or* Analytical Geometry, Bible, Composition, Elocution.

II. THE CLASSICAL COURSE.

FIRST YEAR.

I. Term—Arithmetic, United States History, English Grammar, Bible, Composition, Penmanship.

II. Term—Arithmetic, General History, English Grammar, Physical Culture. Bible, Composition, Penmanship,

III. Term—Arithmetic, General History, English Language, Bible, Composition, Penmanship.

SECOND YEAR.

I. Term—Latin—Lessons, Rhetoric, Higher Arithmetic, Bible, Composition, Elocution.

II. Term—Latin—Lessons, Grammar, History of Greece, Book-keeping, Bible, Composition, Elocution, Physical Culture.

III. Term—Latin, Physical Geography, Elementary Botany, History of Rome, Bible, Composition, Reading. Physical Culture.

THIRD YEAR.

I. Term—Algebra, Cæsar's Commentaries, Greek—Lessons, Bible, Reading of Classics, Composition, Drawing, Physical Culture,

II. Term—Algebra, Vergil's Æneid, Greek Lessons, Grammar, Physical Culture. Bible, Composition, Reading of Classics, Drawing,

III. Term—Algebra, Quadratics, Vergil's Æneid, Xenophon's Anabasis, Bible, Composition, Reading of Classics, Drawing.

FOURTH YEAR.

I. Term—Plane Geometry,	Bible,
Latin—Vergil's Æneid,	Composition,
Prosody,	Drawing,
Xenophon's Anabasis,	Elocution.
Greek Prose Composition,	
II. Term—Plane Geometry,	Bible,
Latin—Cicero's Orations,	Composition,
Prose Composition,	Elocution,
Homer's Iliad,	Physical Culture.
III. Term—Physics,	Bible,
Cicero's Orations,	Composition,
Greek—Homer's Iliad,	Elocution.
Prose Composition,	
Xenophon's Anabasis,	

SENIOR YEAR.

I. Term—Geometry,	English Bible,
Algebra,	Elocution,
Cicero de Senectute,	English Composition.
Odyssey,	
Greek Prose Composition,	
II. Term—Trigonometry,	Rhetoric,
Algebra,	Elocution,
Livy,	English Composition.
Lysias,	Physical Culture.
Greek Testament,	
III. Term—Analytical Geometry,	Chemistry,
Velleius and Pliny,	Elocution,
Plato,	English Composition.
Greek Testament,	

III. THE LATIN SCIENTIFIC COURSE.

FIRST YEAR.

I. Term—Arithmetic,	Bible,
United States History,	Composition,
English Grammar,	Penmanship.

II. TERM—Arithmetic, Bible,
General History, Composition,
English Grammar, Penmanship,
Physical Culture.

III. TERM—Arithmetic, Bible,
General History, Composition,
English Language, Penmanship.

SECOND YEAR.

I. TERM—Latin—Lessons, Bible,
Rhetoric, Composition,
Higher Arithmetic, Reading.

II. TERM—Eutropius, Bible,
Latin Grammar, Composition,
History of Greece, Physical Culture,
Book-keeping, Reading.

III. TERM—Cæsar's Commentaries, Bible,
Physical Geography, Composition,
Elementary Botany, Reading.
History of Rome,

THIRD YEAR.

I. TERM—Cæsar's Commentaries, Bible,
Algebra, Composition,
English History, English Classics,
Drawing.

II. TERM—Algebra, Composition,
Vergil's Æneid, English Classics,
Astronomy, Drawing,
Bible, Physical Culture.

III. TERM—Algebra, Quadratics, Bible,
Vergil's Æneid, Composition,
Civil Government, English Classics,
Drawing.

FOURTH YEAR.

I. TERM—Plane Geometry, Bible,
Latin—Vergil's Æneid, Composition,
Prosody, Drawing,
Physiology, Elocution.

II. Term—	Plane Geometry, Latin—Cicero's Orations, Prose Composition, English Literature,	Bible, Composition, Elocution, Physical Culture.
III. Term—	Physics, Cicero's Orations, Geology,	Bible, Composition, Elocution.

SECOND YEAR.

I. Term—	Algebra, Geometry, Cicero de Senectute, German,	English Bible, Elocution, English Composition.
II. Term—	Trigonometry, Algebra, German, Livy,	Rhetoric, Elocution, English Composition.
III. Term—	Analytical Geometry, Velleius and Pliny, French,	Chemistry, Elocution, English Composition.

Methods of Instruction.

I. PSYCHOLOGY AND ETHICS.

Psychology is taught by text-book and informal lectures. The relation of Psychology to education is made a special feature of the course.

The aim in the Course in Ethics is to make the instruction as practical as possible. Theses on problems in Ethics are required of each student taking the subject in addition to recitations from text-books.

II. LITERATURE AND ART.

Literature is taught by topical outlines, the elaboration of which depends upon a sympathetic study of the masterpieces in connection with the lives and times of the writers. The subject is so presented that a vital experience results rather than an empty form of knowledge. The object of the course is to cultivate and ennoble the emotions, to stimulate the imagination, and to reinforce the will with strong and exalted motives.

The History of Art is offered in the Senior Year, Literary Course. The aim of the course is to give a general knowledge of the development of art and to lead to an acquaintance with individual artists and their work. Some attention is given to the theories concerning the origin of the art-impulse itself, and the law of the mental evolution which has governed the history of art.

III. HISTORY.

History. Six terms are devoted to this study. The course embraces General History, the History of the United States, of England, of Greece, and of Rome. Efforts are made to convince the learner that History is not mere facts in chronological order, but a record of the development of civilization.

Civil Government. The origin and growth of our institutions, the functions of the various departments of the National, State and local governments; the political history of the people; the interpretation and construction of the Constitution, are discussed.

IV. THE ENGLISH LANGUAGE.

English Grammar. The aim is to train the pupils to speak and write the English language with accuracy and force.

Rhetoric is taught as a practical aid to English Composition. Daily exercises in composition are required.

English Composition is required throughout the course. Classes in Composition meet weekly for general criticism and the assignment of work. One essay is required from each student monthly, and an exercise in rapid and concise writing is required weekly.

V. THE LATIN LANGUAGE.

Paradigms of Declension and Conjugation with the Principles of Syntax, are introduced gradually, after many illustrations. English sentences are translated into Latin, readiness in Latin Composition and a correct style being thus acquired.

The following courses are offered: 1. Latin Grammar and Lessons, one term; 2. Eutropius, one term; 3. Cæsar, Gallic war, two terms; 4. Vergil, Æneid, three terms; 5. Cicero, Orations, two terms; 6. Cicero, *De Senectute* and Livy, one term; 7. Livy, Books XXI and XXII, one term; 8. Velleius and Pliny, one term.

VI. THE GREEK LANGUAGE.

The first half of the Third Year is spent in acquiring sufficient knowledge of forms and inflections to commence the study of Xenophon's Anabasis. During the last half year, special attention is given to the inflection and syntax of nouns, pronouns, and adjectives. The reading of Xenophon is continued in the first term of the Fourth Year, and the forms and syntax of verbs made a special study. Homer is then read for one term and a half, and the difference between Homeric and Attic forms is noted. During the last half term Xenophon is reviewed, that the student may refresh her knowledge of Attic Greek, and may not find her transition to College needlessly difficult. Almost daily drill is given in turning into Greek, sentences based on the text of Xenophon.

The following courses in Greek are offered to students in the Classical Course: 1. Greek Lessons, two terms; 2. Xenophon's Anabasis, two terms; 3. Homer's Iliad, two terms; 4. Lysias, Orations, one term; 5. Homer's Odyssey, one term; 6. Plato's Apology, one term; 7. Greek New Testament.

VII. MODERN LANGUAGES.

1. **French, Italian and Spanish.** The modern languages are taught by comparing them with the mother tongue of the pupil, if there be any relation between them. If there is none, they are compared with the Latin and Greek languages. In French, rules are taught by which the words that are not exactly the same in the two languages are easily made into French.

French Syntax is taught by examples and illustrations from readings. The grammar is taught from the Language, and not the language from the grammar. Dictation exercises are given from Whitney's Practical French.

As far as practical only French is spoken in the class room. Extracts are read from the best French literature. Conversations are held in French on the readings, stories are related, and compositions prepared in French by the pupil.

The aim is to teach the modern languages so that they can be spoken correctly.

The same method is used in teaching Spanish and Italian.

2. **German.** In the study of German the aim is to get a knowledge of the language in an all-round way. This is accomplished not alone through the study of grammar and the translation of German into English, but by daily practice in conversation, the committing to memory of poems and idioms, and through an acquaintance with biography and the different phases of German life. As little English as practicable is used in the class-room. Throughout the course there is constant sight reading, translation at hearing, and translation from English into German.

The reading of the second year includes the best German authors studied in connection with Keller's History of German Literature.

VIII. MATHEMATICS.

Arithmetic. Two objects are considered in teaching the subject; first, to give the student a practical knowledge of all ordinary business problems and calculations; second, to develop her ability to think logically and rapidly. The memorizing of rules and mechanical processes is not required, but independent thought, logical analysis and neatness, clearness and accuracy in all written work are demanded. A drill in Mental Arithmetic is combined with the required work of the text-book.

Elements of Algebra. Three terms are given to this subject. There is thorough drill in the fundamental operations, and the idea that these are simply the applications of arithmetical processes to symbols of general value is kept constantly in mind. The course includes Quadratic Equations, Theory of Exponents, Variations, and series.

Geometry. The course includes Plane and Solid Geometry. Besides the demonstrations of Theorems given in the text-book, original demonstrations and the solution of problems are required.

Higher Algebra. The topics discussed are: Progressions, Theory of Limits, Differentiation, Development of Functions into Series, Convergency and Summation of Series, Logarithms, Compound Interest and Annuities, Permutations and Combinations, Probability, Continued Fractions, and the Theory of Equations.

Trigonometry. The course includes Plane and Spherical Trigonometry. Time is given to the numerical illustration of principles for the purpose of making sure that the meaning and use of formulae, demonstrated and learned, are thoroughly understood.

Analytical Geometry. The student is taught the elementary properties of the right line and the conic sections. The course is intended to give a clear conception of the methods of Cartesian Analysis, rather than an extensive knowledge of its results.

IX. SCIENCE.

Physics. The student is thoroughly grounded in the elements of mechanics and physics. The historical beginnings of each subject, and subsequent developments, are sketched in brief lectures. No pains are spared to familiarize the pupil with the laws of these sciences by instruction, experiment, review, and repeated examination. The truth of principles is proved, except where the demonstration involves the higher mathematics. The apparatus of the College is available for class use.

Astronomy. Descriptive Astronomy discusses the earth's relation to the solar system; the masses, motions, and orbits of each member; the causes and consequences of the motions of the earth; general boundaries of the constellation of the Zodiac and Northern Heavens; the accepted theories of comets, meteors, and nebulæ. Charts, star maps, globes, and other apparatus are used, and the student is afforded privileges of observation in the College Observatory.

Physical Geography lays a broad foundation for subsequent work in all sciences. Special attention is given to the physical features of the United States. Drawings, photographs, colored and relief maps, and specimens from the Museum, and field work, aid to make the subject clear.

Geology. The student is required to master the elements of lithographical, structural, dynamic and historical Geology. Specimens of various rocks and minerals are handled in class; their composition, characteristics, and place in nature are explained; the structure of the earth in its present form is studied; the history of its evolution, the age and characteristics of its strata, the chief geological features of each continent, and the forces at work are considered.

Botany is taught by text book and field work. A brief outline is first obtained of plant structure, physiology, growth, and reproduction. Lectures explaining special forms of vegetable growth, and the flora of this country, complete the work.

Physiology. Every effort is made to impart clear ideas of the structure, parts and functions of the human body. Special attention is given to the chemistry of foods, the laws of health, and the effects of stimulants and narcotics. Suggestions are also made as to poisons and their antidotes, the care of the sick, disinfection and sanitation, and accidents and emergencies. The subject is illustrated by the use of a manikin, charts, and preparations.

Descriptive Chemistry is taught by text books, lectures, and experiments. The object of the course is to give the student a general knowledge of the common elements, their sources, uses, compounds, and behavior towards other elements and compounds, and to drill the student in writing formulæ and solving chemical equations. To accomplish this each student will be expected to spend at least five hours each week in the Laboratory, studying the characteristics and reactions of the elements and their compounds, and performing the experiments outlined in the text and lectures. Notes will be kept by each student, describing the experiment and giving the equation which represents the reaction taking place.

PHYSICAL CULTURE.

The health of the students is made a prime object of attention, and sanitary requirements are carefully observed. The Institute

Gymnasium is furnished with Indian clubs, dumb bells, wands, rings, hoops, guns, wall pulleys, parallel bars, etc., and classes in Physical Culture are organized for the benefit of all students. The exercises practiced are such as tend to develop grace and strength. The Institute Campus of six acres furnishes facilities for exercises. Lawn Tennis and other outdoor games are encouraged, and exercise in the open air is required.

ÆSTHETIC CULTURE.

It is intended that the pupils of the Institute shall have the influence unconsciously received from painting, music, and refined surroundings, as well as direct instruction in Literature, Music and Art. Special instruction in Music and Art is given in the schools devoted to those subjects.

SOCIAL CULTURE.

Pupils are trained to observe the usages of good society. Meetings of various organizations for improvement in Literature, Music and Art, and receptions in charge of the pupils add variety to student life. No effort is spared to give the pupils the advantages of a cultured home. The purpose is to develop the social life of the Institution within itself. Students are not permitted, during term-time, to visit in neighboring towns. The number of social functions during a term is limited, and the consent of the Principal must be obtained for each function at least one month before it is to occur.

RELIGIOUS TRAINING.

The Institute is distinctly Christian in its influence. Morning and evening Chapel in the Hall of the Institute building is attended by all students in the Institute courses, special students, and women pursuing studies in the School of Music. College women living in the Institute attend evening Chapel.

Attendance upon Sabbath-school and church services in town is required. All students have weekly recitations in Inductive Bible Study. The students have organized several classes for Scripture study.

The Young Women's Christian Association a voluntary society open to the officers and students of the Institute, meets weekly. The regular Tuesday evening prayer-meeting, missionary and temperance work, special Bible Classes and College Settlement work are in charge of this Association.

SPECIAL BRANCHES.

1. Italian and Spanish may be taken up as optional studies, under the instruction of M. Elysée Aviragnet.

All optional studies must be pursued in connection with the regular classes.

2. Bible instruction is given once a week throughout the entire course.

3. Essays are required of all students each month, and themes each week.

4. Two declamations are required of each student during each term.

5. Exercises in either Elocution or Reading are required once a week of all classes.

PUBLIC EXERCISES.

THE EXERCISES OF THE GRADUATING CLASS.

The Commencement Exercises of the Institute are held in the College Commencement Hall on Tuesday afternoon of Commencement week.

THE EXERCISES OF THE FOURTH-YEAR CLASS.

The exercises of the Fourth-Year Class, a combined musical and literary entertainment, are held in the Chapel of the Institute on the last Saturday evening in the month of April.

THE CONTEST IN ELOCUTION.

A contest in Elocution for the prize in that subject, open to all the members of the Institute, takes place in Bucknell Hall on the second Saturday evening in the month of May.

ALUMNÆ SOCIETIES.

The Alumnae Association holds its anniversary on Monday afternoon of Commencement week.

The Lewisburg Alumnae Club meets at the Institute on the second Tuesday of each month during term-time.

The Philadelphia Alumnae Club is composed of graduates living in and near that city.

STUDENTS' LOAN SOCIETY OF BUCKNELL INSTITUTE.

In June, 1887, there was organized in connection with Bucknell Institute an association for the purpose of assisting young women of limited means to obtain an education. A fund was established by gifts from the Alumnæ and friends of the Institute. The money is loaned to beneficiaries, who obligate themselves to return it, *without interest,* as soon after their graduation as they may be able.

Before the organization of this Society, many promising students at Bucknell Institute were unable to finish the course of study because there was no provision for financial assistance.

Since 1887, but for the help of this Association, some of the best of our graduates would have been deprived of the training which has fitted them for the positions they now fill as teachers, authors, missionaries, and pastors' helpers.

During the first decade, twenty-four young ladies received aid. More than one-half of these have returned the loan in full.

The Society meets in the parlors of the Institute on the first Wednesday afternoon after the opening of each term, at half-past two o'clock.

The annual meeting for the election of officers is held at the Institute on the first Wednesday after the opening of the winter term.

The payment of one hundred dollars constitutes the donor a Life Members of the Association; five dollars annually, an Active Member.

Contributions should be sent to the Treasurer, Mrs. T. H. Purdy, Sunbury, Pa. Any information will be given by the President, Mrs. Katharine B. Larison, Cochecton Centre, N. Y., or Mrs. John T. Judd, Corresponding Secretary, Lewisburg, Pa.

DEPARTMENT OF ELOCUTION.

MISS EDITH SCHILLINGER.

This department is open to all members of the Institute. Its aim is the correct and effective utterance of thought. Special attention is given to Voice Culture, Articulation, including Pronunciation and Expression. Weekly Rhetoricals afford opportunity for platform work. Bible Reading and the study of Shakspere have places in the course. Special courses are offered to students who wish to take private lessons in elocution. Particular attention is given to curing persons of stammering and other defects in speech.

SPECIAL STUDENTS IN ELOCUTION.

NAME.	RESIDENCE.	ROOM.
ELIZABETH BAKER,	*Lewisburg.*	Market Street
ALBERT DANIEL BARTON,	*Torresdale.*	Academy
CHARLES RODMAN BARTON,	*Torresdale.*	Academy
IRENE EMMA BARTON,	*Torresdale.*	Institute
BINA MAE CARR,	*North East.*	Institute
FANNY DERR,	*Lewisburg.*	Market Street
SPENSER TILLINGHAST HARRIS,	*Lewisburg.*	University Avenue
NELLIE MCKENZIE KOUGH,	*Newport.*	Institute
EDITH MAE KUNKEL,	*Bucknell.*	Bucknell
IDA MAE MAINE,	*Dimock.*	Institute
AMY REBECCA NICELY,	*Watsontown.*	Watsontown
ALICE ELIZABETH RAIKE,	*Doylestown.*	Institute
KATHRYN SNYDER,	*Lewisburg.*	Market Street
LUCY WOLFE,	*Montandon.*	Montandon

The Art Department.

Miss Candace Wood.

The facilities for the study of Art have been greatly increased by the accommodations allotted to this department, in a special studio, which provides such adjustments for admission of light, and unencumbered wall surface as to render it adapted for the execution and display of art production.

For such students as desire opportunity for work preparatory to professional study, and to those who wish to fit themselves to give systematic instruction in drawing, the following course is provided:

First Year. Drawing in Pencil, Charcoal and Crayon from solid geometrical forms, and portions of the human figure, with the necessary elements of perspective, the Laws of proportion, and the Relations of Light and Shade.

Second Year. Drawings from the Antique in Coal, Crayon, Sepia, or Oil Monochrome; Modeling in Clay or Wax. Study in Color from Draperies and Still Life.

Third Year. Composition, Color in Landscape, Pen and Ink Drawing, and Painting in Color from Nature and from Life.

On successful completion of this entire course a certificate of proficiency will be awarded.

Students who do not desire the certificate course, and whose interest is in Decorative Work, will receive the requisite instruction in the latest methods—China Painting, Tapestry, Dyeing, and applied Design in other mediums and materials.

Charges for instruction in Art are as follows:

	Per Annum.
Drawing	$24.00
Crayoning	33.00
Painting in Oil, Water Colors, Pastel, or on China	60.00

	Per Lesson.
Special individual instruction in Painting	$1.00

Free-hand Drawing is a part of the required work of the school without extra charge.

ART EXHIBIT.

On Saturday, Monday and Tuesday, of Commencement week, a display of art products by the pupils of the School of Art is made in the Studio. At this time a committee of art students receives and entertains all those who visit the Studio.

STUDENTS IN ART.

NAME.	RESIDENCE.	ROOM.
Ruth Bower,	*Lewisburg.*	South Sixth Street
Helen Irene Cooke,	*Denver, Col.*	Institute
Esther Belle Godcharles,	*Milton.*	Milton
Helen Hare,	*Lewisburg.*	University Avenue
Coleman John Harris,	*Lewisburg.*	University Avenue
James Pardon Harris,	*Lewisburg.*	University Avenue
Harold Burrows Henderson,	*Montgomery.*	Montgomery
Scott Hilliard,	*Montgomery.*	Montgomery
Edna Ann Inness,	*Canton.*	Institute
Sarah Ethel Judd,	*Lewisburg.*	University Avenue
Myra Leiberman,	*Milton.*	Milton
Esther Leonore Lydic,	*Mahaffey.*	Institute
Paul Knorr,	*Reading.*	College
Ida Mae Maine,	*Dimock.*	Institute
Emma Roletta McClure,	*McKeesport.*	Institute
Anna Marguerite Miller,	*Alexandria.*	Institute

NAME.	RESIDENCE.	ROOM.
Alta Loretta Nickel,	*Marion, Ind.*	Institute
Daisy VanSyckle Parsons,	*Canton.*	Institute
Viola Pensyl,	*Elysburg.*	Elysburg
Louise Reedy,	*Sunbury.*	Sunbury
Olive Schillinger,	*Martin's Ferry, Ohio.*	Institute
Helen Marie Smith,	*Cleveland, Ohio.*	Institute
Olive Smith,	*Sunbury.*	Sunbury
Jessie Florence Swartz,	*Altoona.*	Institute

General Information.

ADVANTAGES.

The Bucknell Institute offers to young ladies superior educational advantages. Its location in a University town assures an atmosphere of study and the benefit of numerous literary exercises, lectures and addresses. The students in the Institute have the use of the Library and apparatus of the Institute, and also of the College Astronomical Observatory, Chemical Laboratory, Museum, and Library, and the various apparatus of the University. An isolated school could not provide for itself these advantages at a cost of less than a quarter of a million dollars.

ADMINISTRATIVE AND OTHER REGULATIONS.

1. The general control of the Institute is vested in the President of the University.

2. The government of the Institute, subject to such control, rests with the Principal of the Institute.

3. Young women attending the College or School of Music are subject to the rules and regulations governing young women attending the Institute.

RULES.

The laws governing the Institute are enacted by the Board of Trustees.

Any officer of the Institute becoming cognizant of violation of regulations by any pupil shall report the same to the Principal of the Institute, who shall make a record of the fact in a book provided for the purpose. Any second violation by the same pupil shall be reported to the President of the University; and if, in the judgment of the President of the University, and the Principal of the Insti-

tute, the offense be of sufficient gravity, the parent or guardian of the offending pupil shall be notified.

Violations of the regulations of the Institute or infraction of the laws of morality are punished by private reprimand, deprivation of privileges, or private withdrawal from the Institute.

The following are selections from the regulations:

1. No student is allowed to leave the Institute grounds at any time without permission from the Principal.

2. Unless for reasons very satisfactory, students from a distance are not permitted to visit their homes, or to leave the Institute to visit with relatives or friends in town. A student will not be permitted to spend the night with friends in town.

3. None but near relatives and friends from a distance are allowed to visit with boarding students, and such visits must be so arranged as not to interfere with the regular hours of study and recitation.

4. Students are not at liberty to invite guests to their private apartments, or to any part of the building, without permission from the Principal.

5. Teachers and students take their meals at the same table, and no special article of food is served to any one, except in case of sickness.

6. Parents and guardians are particularly requested to refrain from furnishing their daughters and wards with *eatables of any kind*, except fruit.

7. Patrons visiting young ladies at the Institute may be accommodated with board at one dollar a day, if there are vacant rooms. In no case will students be required to give up their rooms to visitors. Visitors will conform to the general regulations of the Institute.

8. Regular and systematic exercise, both in the open air and in the Ladies' Gymnasium, is required of each student.

9. In the Regular course the number of daily recitations is fixed. Special students are required to engage in such a number of studies as may, in the judgment of the Principal, be sufficient to occupy their time.

10. The character of each recitation is recorded at the time, and the result, together with a statement of the general industry and deportment of the student, is sent to the parent or guardian at the close of the term.

11. The passing grade in any study is a definite one, and must be attained before promotion can be secured.

12. No room can be reserved for a student unless definitely engaged.

13. The books and current periodicals of the College and Institute Libraries are available to all students.

14. Articles Required.—Each student shall be provided with an umbrella, waterproof, overshoes, table napkins, towels, covers for bureau and washstand, counterpanes, sheets and pillow-cases. The size of pillow is twenty by thirty inches; of the bureau, forty-three by nineteen inches; of the washstand, thirty-two by sixteen inches.

Every article of clothing should be marked with the owner's name in full.

It is especially desired that the dress of pupils shall be simple and inexpensive. Whenever practicable, the wardrobes should be prepared at home, to avoid frequent visits to town.

A deposit of one dollar is made for washbowl and pitcher, which is refunded when articles are returned.

Prizes.

I. BUCKNELL PRIZES.

The following prizes were founded by William Bucknell, of Philadelphia:

1. A First Senior Prize, to be awarded to the member of the graduating class, who, being excellent in scholarship during the Senior Year, shall prepare the best essay.

2. A Second Senior Prize, to be awarded to the member of the graduating class, who, being excellent in scholarship during the Senior Year, shall prepare the second best essay.

For the year 1903 the First Prize of twenty-four dollars was awarded to Theora May Campbell, and the second Prize of sixteen dollars to Mary Elizabeth Young.

3. A Third Senior Prize to be awarded to the member of the graduating class who shall attain the highest grade in the studies of the Senior Year. This excludes all grades of studies not in the Senior Year, all Senior studies taken before the Senior Year, and all studies not taken in the Institute.

For the year 1903, this prize of twenty-five dollars was awarded to Louisa Mattis.

4. A First Fourth Year Prize, to be awarded to the member of the Fourth Year Class, who, being excellent in scholarship during the year, shall prepare the best Fourth Year essay.

5. A Second Fourth Year Prize, to be awarded to the member of the Fourth Year Class, who, being excellent in scholarship during the year, shall prepare the second best Fourth Year essay.

For the year 1903, these prizes were awarded as follows: Mary Georgiana Stanton received the First Prize of twenty dollars, Irene Emma Barton the second Prize of fifteen dollars.

The fund consists of $2000, the income from which is to be devoted to these prizes annually in a manner more particularly defined in the donor's communication to the Trustees.

Themes for the Bucknell Essay Prizes will be drawn from the following works:

For 1904—Shakspere's King Lear; Carlyle's Essay on Burns; Tennyson's Princess; Hawthorne's Twice Told Tales.

For 1905—Shakspere's Merchant of Venice; Scott's Lady of the Lake; Tennyson's Elaine and the Passing of Arthur; Macaulay's Essay on Milton.

II. THE ELOCUTION PRIZE.

A prize in Elocution is offered to the student who shall give the best recitation at the Annual Contest.

For 1903 the prize was awarded to Elizabeth Baker.

Expenses.

I. Boarding Students. The regular charge for Boarding Students is $240.00 per annum; the other expenses, spending money, books, and clothing, will vary with the individual student.

An additional charge will be made when one student occupies a double room alone in the Main Building. Extra charge will also be made for front corner rooms in the West Wing.

Students are charged extra for the washing of dresses, and for the washing of more than 12 pieces per week.

The rooms in the Bucknell Cottage are rented in suites, for which there is an extra charge, depending on the location.

	Per Annum.
Suite on the first floor	$39 00
Suite on the second floor	40 00
Suite on the third floor	28 00

Each suite contains a study and two sleeping apartments, and has accommodations for four persons, and the charge will be divided accordingly.

Students will be charged for damage done to furniture or to the room they occupy.

II. Day Students. The charges for Day Students amount to $60.00 per annum.

III. Extra Studies. The charges for Elocution, Drawing and Painting and Music, will be found under those titles.

Bills are payable *strictly in advance,* on the 15th of September, January and April.

Checks and drafts should be drawn in favor of the Registrar of the University.

No bill will be made out for a shorter period than one term; and no deductions will be made, except in the charge of board, in case of a prolonged absence on account of sickness.

The expenses for Music, Printing, and other charges ordinarily incurred at Examination and on anniversary occasions, are paid by the class or classes which incur the expenses.

The fee for Graduation and Diploma is $5.

Free scholarships, covering tuition, are awarded to children of Ministers of the Gospel *in actual service.*

For information respecting the Institute, address the Principal, Miss Eveline Judith Stanton, Ph. M., or the President of the University.

BUCKNELL SCHOOL OF MUSIC.

ELYSEE AVIRAGNET, A. M., MUS. DOC.,
DIRECTOR.

JULIET AIKIN,
PIANO, ORGAN, HARMONY.

ESTHER ATHERTON DAVENPORT,
INSTRUMENTAL MUSIC.

HARRIETT TALLANT TRACY,
INSTRUMENTAL MUSIC.

VON LEE GOODNOUGH,
VOCAL, HARMONY.

GRADUATES, 1903.

NAME.	COURSE.	RESIDENCE.
MAUDE GREGG,	*Piano, Harmony.*	Sunbury
ANNA MILDRED HAVERSTICK,	*Piano, Harmony.*	Lykens
ESTHER LEONORE LYDIC,	*Piano, Harmony.*	Mahaffy
MILTON HAYDEN PARRY PROUT,	*Violin, Science of Music.*	Wiconisco

Names of Students.

PIANO.

NAME.	RESIDENCE.
Ollie Rothrock Baker,	Watsontown
Pauline Gress Berger,	Watsontown
Susie Rebecca Biehl,	Lewisburg
Nellie Louise Brown,	Cedar Lodge
Fressa Seaton Brown,	Milroy
Josephine Virginia Bassett,	Lewisburg
Ruth Angeline Bottorf,	Lemont
Rachel Alice Brookbank,	Driftwood
Gertrude Dexter Camp,	Milroy
Alice Price Cooner,	Watsontown
Mary Edith Cooner,	Watsontown
Anna Zoe Davis,	Carlisle
Edith DeLong,	Lewisburg
Vera Ellice Duncan,	Cross Fork
James G. Durham,	Watsontown
Harriett Anna Emerick,	Milton
Minnie Louise Fessenden,	Glen Iron
Ethel May Flanigan,	Tuckahoe, N. J.
Bessie May Forney,	Rauchtown
Mary Jane Fritz,	Trevorton
Louisa May Gardner,	Sunbury
Fannie Mae Getz,	Lewisburg
Mabel Elizabeth Gleason,	Canton
John William Grandfield,	Clarksboro
Maude May Gregg,	Sunbury
Nina Krauser Hackenberg,	Milton
Dora Regina Hamler,	Lewisburg
George William Hawk,	Tower City
David Jackson Hawk,	Tower City
Emily Heaton,	Milton
Mary Heaton,	Milton
Florence Ida Hilliard,	Montgomery
Minnie Amanda Hokanson,	Pittsfield

NAME.	RESIDENCE.
Harriett May Hollingshead,	Milton
Mary Hulley,	Lewisburg
Anna Ethel Johnson,	Gordon
Myrtle Keller,	Seven Points
Kathryn May King,	Reynoldsville
Nellie McKenzie Kough,	Newport
Rachel May Kunkle,	Lewisburg
Fannie Drue Logan,	Sunbury
Ida Mae Maine,	Dimock
Mabel G. Maurer,	New Berlin
Elsie Zoe Metzgar,	Montgomery
Mae Morgan,	Perth Amboy, N. J.
Isabel Stuart Montgomery,	Milton
Isabel M. Montgomery,	Lewisburg
Ebenezer Edward Morris,	Mahanoy City
Alta Loretta Nickle,	Marion, Ind.
Amy Rebecca Nicely,	Watsontown
Estie Miriam Ocker,	Lewisburg
Helen Abigail Overholt,	Scottdale
Flossie Edith Pethtel,	New Freeport
Mary Pierce Poeth,	Lewisburg
Alice Elizabeth Raike,	Doylestown
Isabel Hunter Russell,	Philadelphia
Leonora May Shamp,	Lewisburg
Minnie Carpenter Sherrick,	Mount Pleasant
Edna M. Smeed,	Lewisburg
Mary Georgiana Stanton,	Chinchilla
Anthony Steinhilper,	South Williamsport
Margaret Johnston Stuart,	State College
Jessie Florence Swartz	Altoona
Elizabeth Laura Taylor,	Williamsport
Ralph Llewellyn Thomas,	Lewisburg
Donald Thompson,	Lewisburg
Mrs. Orienta Tola Thompson,	Lewisburg
Annie M. Tule,	Montandon
Emily Harnor Voris,	Pottsgrove
Fannie Alice Wagner,	Montandon
Frank Landis Yost,	Lock Haven

VOICE.

NAME.	RESIDENCE.
Cottie Gudila Albright,	Lewisburg
Florence Louise Bacon,	Canton
Ralph Lesher Belford,	Milton
Susan Rebecca Biehl,	Lochiel
Mame Eva Bidelspacher,	Trout Run
Mary Isabel Bower,	Lewisburg
Nellie Louise Brown,	Canton
Tressa Seaton Brown,	Milroy
Rachel Alice Brookbank,	Driftwood
Ernest Sabin Burrows,	Picture Rocks
Mary Edith Cooner,	Watsontown
Vera Ellice Duncan,	Cross Fork
Mary Jane Fritz	Trevorton
Minnie Louise Fessenden,	Glen Iron
Ethel Mae Flanigan,	Tuckahoe, N. Y.
Rosa Gluck,	Lansford
Nina Krauser Hackenberg,	Milton
John Franklin Hennessy,	Irwin
Harriett May Hollingshead,	Milton
Coit Roscoe Hoechst,	East Berlin
Anna Ethel Johnson,	Gordon
Nellie McKenzie Kough,	Newport
Myrtle Keller,	Seven Points
Edith E. Lane,	Ulysses
Fannie Drue Logan,	Sunbury
Ida Mae Maine,	Dimock
Sadie Musser,	Lewisburg
Amy Rebecca Nicely,	Watsontown
Alta Loretta Nickle,	Marion, Ind.
Arthur Judson Pearse,	Ashtabula, O.
Flossie Edith Pethtel,	New Freeport
Mary Pierce Poeth,	Lewisburg
Alice Elizabeth Raike,	Doylestown
Isabel Hunter Russell,	Philadelphia
Horace Jones Sheppard,	Cedarville, N. J.
Pearl Lois Smith,	Erie
Jessie Florence Swartz,	Altoona
Philip Charles Thomas,	Scranton
Elizabeth Vincent,	Watsontown
Abraham Pierce Waltz	Elimsport
Clifford Vernon Williamson,	Salladasburg

PIPE ORGAN.

NAME.	RESIDENCE.
Ruth Angeline Bottorf,	Lemont
Ethel Mae Flanigan,	Tuckahoe, N. J.
Fred Voris Follmer,	Milton
Virginia Miller,	Mifflinburg
Estie Miriam Ocker,	Lewisburg
Margaret Johnston Stuart,	State College
Jessie Florence Swartz	Altoona

HARMONY.

NAME.	RESIDENCE.
Pauline Gress Berger,	Watsontown
Susie Rebecca Biehl,	Lewisburg
Ruth Angeline Bottorf,	Lemont
Mary Isabel Bower,	Lewisburg
Rachel Alice Brookhurst,	Driftwood
Gertrude Dexter Camp,	Milroy
Minnie Louise Fessenden,	Glen Iron
Ethel Mae Flanigan,	Tuckahoe, N. J.
Bessie Mae Forney,	Rauchtown
Mary Jane Fritz	Trevorton
Fannie Mae Getz,	Lewisburg
Nina Krauser Hackenberg,	Milton
Minnie Amanda Hokanson,	Pittsfield
Harriett May Hollingshead,	Milton
Ann Ethel Johnson,	Gordon
Nellie McKenzie Kough,	Newport
Rachel Mae Kunkle,	Lewisburg
Fannie Drue Logan,	Sunbury
Ida Mae Maine,	Montrose
Mabel G. Maurer,	New Berlin
Mae Morgan,	Perth Amboy, N. J.
Flossie Edith Pethtel,	New Freeport
Leonora May Shamp,	Lewisburg
Mame Carpenter Sherrick,	Mt. Pleasant
Edna M. Smeed,	Lewisburg
Margaret Johnston Stuart,	State College
Jessie Florence Swartz,	Altoona
Annie M. Tule,	Montandon
Fannie Alice Wagner,	Montandon

HISTORY OF MUSIC.

NAME.	RESIDENCE.
Pauline Gress Berger,	Watsontown
Susie Rebecca Biehl,	Lewisburg
Ruth Angeline Bottorf,	Lemont
Mary Isabel Bower,	Lewisburg
Rachel Alice Brookbank,	Driftwood
Gertrude Dexter Camp,	Milroy
Minnie Louise Fessenden,	Glen Iron
Ethel Mae Flanigan,	Tuckahoe, N. J.
Bessie Mae Forney,	Rauchtown
Mary Jane Fritz,	Trevorton
Fannie Mae Getz	Lewisburg
Nina Krauser Hackenberg,	Milton
Minnie Amanda Hokanson,	Pittsfield
Harriett May Hollingshead,	Milton
Anna Ethel Johnson,	Gordon
Nellie McKenzie Kough,	Newport
Rachel Mae Kunkle,	Lewisburg
Fannie Drue Logan,	Sunbury
Ida Mae Maine,	Montrose
Mabel G. Mauser,	New Berlin
Mae Morgan,	Perth Amboy, N. J.
Flossie Edith Pethtel,	New Freeport
Mame Carpenter Sherrick,	Mt. Pleasant
Edna M. Smeed,	Lewisburg
Marguerite Johnstone Stuart,	State College
Jessie Florence Swartz,	Altoona
Fannie Alice Wagner,	Montandon

VIOLIN, VIOLA, VIOLONCELLO, DOUBLE BASS.

NAME.	RESIDENCE.
Homer Hastings Adams,	Grange
Josephine Virginia Bassett,	Lewisburg
Elbert Little Blakeslee,	Montrose
Ruth Angeline Bottorf,	Lemont
Minnie Louise Fassenden,	Glen Iron
Norman Buckland Gardner,	Sunbury
Dora Regina Hamler,	Lewisburg
Roy Hanna,	Bradford

NAME.	RESIDENCE.
Ernestine Susanna Hyatt,	Lewisburg
Schimer Heiner,	Milton
Scott Pardoe Hilliard,	Montgomery
Harriett May Hollingshead,	Milton
Elkanah Hulley,	Lewisburg
Ruth Cushman Janes,	Mahanoy City
Myrtle Keller,	Seven Points
Charles Austin Lemmon,	
Nevin Maurer,	New Berlin
Lorez Edna Olds,	Lewisburg
Estie Miriam Ocker,	Lewisburg
Clarence Ira Phillips,	Turbotville
Leo Lawrence Rockwell,	Monroetown
Alif Stephens,	Lewisburg
Frank Laton Stuart,	
Paul George Stolz,	Philadelphia
Jessie Florence Swartz	Altoona
Evan Walling Thomas,	Lewisburg
Ralph Emerson Winbigler,	Washington, D. C.

MANDOLIN, BANJO, GUITAR.

NAME.	RESIDENCE.
Estella May Albright,	Mifflinburg
Cottie Gudila Albright,	Lewisburg
Irene Emma Barton,	Torresdale
Elbert Little Blakeslee,	Montrose
Mary Isabel Bower,	Lewisburg
Ferne Frick Braddock,	Mt. Pleasant
Sophia Louisa Bodler,	Germania
Ruth Angeline Bottorf,	Lemont
Julia Parthenia Brown,	Rochester
Laverda Adelia Burgart,	Altoona
Florence Jeannette Cobb,	Coudersport
Claire Marie Conway,	Greenville
William Ralph Deppen,	Trevorton
Vera Ellice Duncan,	Cross Fork
James Wilson Ferrell,	New Freeport
Sara Cyrena Furman,	Wellsboro
Louisa May Gardner,	Sunbury

NAME.	RESIDENCE.
Nellie May Goddard,	Lewisburg
Bessie Ella Harpel,	Mt. Carmel
Addie Ellen Johnston,	Scotch Plains, N. J.
Edith Hedges Kelly,	Lewisburg
Kathryn May King,	Reynoldsville
Edith E. Lane,	Ulysses
Carrie May McCaskie,	Milburn, N. J.
Florence Agnes McCaskie,	Milburn, N. J.
Grace Lenore Meek,	Reynoldsville
Elizabeth Briton Meek,	Allenwood
Alta Loretta Nickle,	Marion, Ind.
Lucy Edna Olds,	Lewisburg
Helena Mae Olds,	Lewisburg
Estie Miriam Ocker,	Lewisburg
Daisy VanSyckel Parsons,	Canton
Flossie Edith Pethtel,	New Freeport
Mary Pierce Poeth,	Lewisburg
Elizabeth Eva Reed,	Lewisburg
Laura Sharp,	Philadelphia
Lucretia Garfield Snyder,	Dunmore
Eva Blanche Stoner,	Alverton
Anthony Steinhilper,	S. Williamsport
Alif Stephens,	Lewisburg
Nellie Thomas,	Philipsburg
Harold Edward Tiffany,	Vose
Frank Landis Yost,	Lock Haven

FLUTE, CLARIONET AND BRASS INSTRUMENTS.

NAME.	RESIDENCE.
Percy Chester Andrews,	New Bethlehem
William Andrew Bartol,	Lewisburg
Earnest Sabine Burrows,	Picture Rocks
Murray Alvin Collins,	Allenwood
LeRoy W. Hoon,	Monongahela
Frank William Hutchison,	New Bethlehem
Lynn S. Goodman,	Loganton
Oscar J. Kingsbury,	Nanticoke
George Washington Leach,	New Bethlehem
Charles S. Marsh,	New Bethlehem

NAME.	RESIDENCE.
Robert D. Royer,	Huntingdon
Harry B. Scheirer,	Mahanoy City
Frank C. Shirley,	Clarion
Edison Ario Steinmetz,	Centralia
Ardis Clair Thompson,	Franklin

SUMMARY.

Piano	71
Voice	41
Pipe Organ	6
Harmony, and Science of Music	29
History of Music	27
Violin, Violoncello, Viola, Double Bass	27
Mandolin, Banjo and Guitar	43
Cornet and Brass Instruments	15
Total Lessons	259
Total Pupils	143

Courses of Study.

The School of Music is under the special charge of a French artist, whose musical education was received at the Conservatory of Music in Paris, and who has had a large and successful experience in teaching. He is supported by competent assistants, and the course is designed to afford every needed facility for the study of Vocal and Instrumental Music. An ample supply of pianos from the best makers is provided for practice, including a Concert Grand.

INSTRUMENTAL MUSIC.

COURSE FOR THE PIANO-FORTE OF FOUR YEARS FOR GRADUATION.

The pupil is required to pursue the most thoroughly approved modern system of technical training. After the first rudiments have been mastered, the course of instruction leads to the practice of *etudes,* designed to unite with purely technical drill the requirements of artistic style and expression.

PIANO.

FIRST YEAR.

New England Conservatory method, 1 and 2 parts; Le Couppey Ecole Du Méchanisme; Duvernoy Ecole du Méchanisme, books 1, 2 and 3; Kohler, op. 157; Czerny, fifty Studies from op. 261, 821, 599, and 139, ed. of Heinrich Germer; Meyer, Progressive and Melodious Studies; Robert Sutton's "The Elements of the Theory of Music"; Brown, Musical Biographies of Composers.

SECOND YEAR.

Plaidy, Technical Studies; Czerny, Polyrhythmic Studies from op. 139, 834, 335, and 299; Czerny, Studies of Ornamentation from op. 355 and 833; Czerny, twelve Studies from op. 299 and 740; Czerny, thirty studies from op. 299 and 834 (Heinrich Germer Edition); Heller, Expression and Rhythm, op. 135; Kullak, Preparatory Octave Studies; Homer Norris's Practical Harmony; History of Music.

THIRD YEAR.

Clementi "Gradus ad Parnassum;" Tausig, Daily Studies; Kohler Cramer Studies, books 1, 2, and 3; Czerny, thirty-six Octave Studies from op. 821, 335, 740, and 834 (Heinrich Germer Edition); Norris, Harmony; Dr. Marx, Universal School of Music.

FOURTH YEAR.

Bach, two and three-voiced invention; Czerny, twenty Studies from op. 325; Czerny, nineteen Studies from op. 740; Czerny, Toccata, op. 92 (Heinrich Germer Edition); Kullak, Octave Studies; Chopin, Studies; Liszt, Studies; Bach, Well-Tempered Clavichord (prelude and fugues); Kullak, Art of Touch; Symphonies of Haydn, Mozart, and Beethoven.

During the year, selected studies from Bertini, Rossellen, Moscheles, Heez, and Thalberg are also given to the pupils.

That the æsthetic development may be proportionately secured, the above exercises are supplemented by the study of the works of the best composers.

COURSE FOR PIPE ORGAN.

The course is based upon:

Dudley Buck's Pedal Studies, and upon the works of Rink, Batiste, Lefébure-Wely, Guilmant, and others.

COURSE FOR THE VIOLIN.

This course is based upon:

Dancla's School of Mechanism; De Beriot's Violinist's First Guide; Fiorillo's Studies; Alard's Studies; Kreutzer's Studies, etc., with selections from the compositions of the best writers for this instrument.

COURSE FOR THE VIOLONCELLO.

Instruction for this instrument is based upon:

Méthod Pratique pour le Violoncello, par S. Lee; studies by Piatti and Romberg.

COURSE FOR VIOLA.

Bruni's Methods and Studies, by Campagnoli.

COURSE FOR CONTREBASSO (DOUBLE BASS).

Bottesini's Method.

VOICE CULTURE.

COURSE OF THREE YEARS FOR GRADUATION.

Careful instruction is given in the use of the voice, and the correct manner of producing purity of tone. To secure control over the voice and gain for it flexibility, fullness, and durability, thorough drills afforded in such technical exercises as:

Lamperti's and Vannuccini's Italian Methods, Vocalises of Sieber, Concone, Tütgen, Vaccai, Bonaldi, Bordogni, Marchesi, and Ponafka; Lamperti's Studies in Bravura Singing. For expression and the development of a pure style, practice is afforded in singing the best English, German, Italian, and French Songs, Operatic Arias and Solos from the Oratorios.

COURSE IN HARMONY.

It is urgently recommended that the study of Harmony be included in the other musical work, inasmuch as a sound knowledge of its principles is essential to the success of all vocalists and instrumentalists. The text-books used are: Bussler's Harmonic Exercises, Homer Norris's Practical Harmony, Richter's Counterpoint, and Reicha's Course of Musical Composition.

THE ORCHESTRA.

CLASSES FOR ALL ORCHESTRAL INSTRUMENTS.

Students who are sufficiently advanced in any of the above musical instruments will have opportunity of practice in string quartettes, trios, concertos, and symphonies of Beethoven, Mozart and Haydn.

THE BAND.

A Brass Band, consisting of about twenty pieces, has been organized, and is led by M. Elysee Aviragnet, Director of the School of Music. The Band meets weekly in the Laboratory for rehearsal, and furnishes street and concert music for University and town exercises.

RECITALS.

On the Friday evening prior to Commencement Week a public recital of the School of Music is held in Bucknell Hall.

The public examination of those who desire certificates of proficiency is held in Bucknell Hall the Saturday afternoon before commencement. At this time each pupil plays or sings two pieces of high grade, and reads an essay on some subject connected with music.

TUITION.

Extra tuition is charged for instruction in Music, as follows:

	Per Annum.
Vocal Music	$60 00
Music on Piano *or* Organ	60 00
Harmony, in Class	18 00
Harmony, private lessons	60 00
Use of Instrument for practice	10 00
Guitar, in Class	15 00
	Per Lesson.
Special individual instruction in Music	$1 00

No reduction will be made except in case of protracted illness.

Instruction in the Orchestra and in Harmony is free to pupils otherwise studying music.

RESIDENCE OF MUSIC PUPILS.

Pupils in music reside in the Institute, and are under the care of the Principal of the Institute. Students pursuing any of the Institute courses can also take studies in music. Those who wish to make music a specialty are recommended to take at least one study each term in Language or Literature.

The regular charges for pupils in music, residing in the Institute, including one literary subject per term, are $195 per annum. This *does not* include charges for instruction in music, which are determined by the number of lessons taken per week.

GRADUATION IN MUSIC.

Students who complete any of the Courses in Music and pass the examinations, receive a certificate of proficiency. Students will not be ranked as Seniors in Music until they have passed an examination before the Committee. Besides the examination before the Committee for admission to the Senior Class, students will be required to pass a preliminary examination at the opening of the Spring term, and a final examination before Commencement Week. Students will not be admitted to the final examination unless they have passed the preliminary examinations.

THE AVIRAGNET PRIZES.

Professor Elysée Aviragnet has established two prizes, as follows:

1. A prize for excellence in music.

For 1903 this prize was awarded to Anna Mildred Haverstick and Milton Hayden Parry Prout.

2. A prize for excellence in French.

For 1903 this prize was awarded to Mellie Armstrong Westcott.

GENERAL REMARKS.

Young ladies attending upon the School of Music are subject to the administration and other regulations enacted by the Board of Trustees for the government of students in the Institute. These rules are given on page 141 of this Catalogue. Students of Music are also entitled to all the privileges of the Institute.

For information respecting the School of Music, address the Director, Elysee Aviragnet, Mus. Doc., or the President of the University.

University Calendar

1904—05.

Second Term ends ..... Friday, March 25, 1904

SPRING RECESS.

Third Term begins ..... Wednesday, March 30, 1904
Sermon before the Christian Associations, Sunday, April 10, 1904
Declamation of the Third Form, Academy, Saturday, April 16, 1904
Exercises of the Fourth-Year Class, Institute,
Saturday, April 23, 1904
Contest in Elocution, Institute, ... Saturday, May 14, 1904
Exhibition of the Junior Class, College, .. Friday, May 20, 1904
Examinations, ... Thursday to Saturday, June 16 to 18, 1904
Exhibition, School of Music, ... Friday, June 17, 1904
Junior Debate, ... Saturday, June 18, 1904
Baccalaureate Sermon, ... Sunday, June 19, 1904
Sermon before the Education Society, ... Sunday, June 19, 1904
Examinations for Admission to College, Monday, June 20, 1904
Meeting of the Alumnae of the Institute, Monday, June 20, 1904
Oration before the Literary Societies, ... Monday, June 20, 1904
Annual Meeting of the Trustees, ... Tuesday, June 21, 1904
Annual Meeting of the Alumni, ... Tuesday, June 21, 1904
Exhibition of the Fourth Form, Academy, Tuesday, June 21, 1904
Graduating Exercises of the Institute, .. Tuesday, June 21, 1904
Oration before the Alumni, ... Tuesday, June 21, 1904
ANNUAL COMMENCEMENT, the 54th, Wednesday, June 22, 1904

SUMMER VACATION.

Examinations for Admission to College,
Wednesday, September 21, 1904
First Term Begins, ... Thursday, September 22, 1904
Reception by Christian Associations, Saturday, September 24, 1904
Introductory Address, ... Monday, September 26, 1904
Matriculation, ... Monday, November 21, 1904
Thanksgiving (recess of three days), Thursday, November 24, 1904
First Term Ends, ... Thursday, December 22, 1904

HOLIDAY RECESS.

Second Term Begins, ... Tuesday, January 4, 1905
Day of Prayer for Colleges, ... Thursday, January 20, 1905
Second Term Ends, ... Friday, March 25, 1905

Contents.

PAGE.

Departments 2
Summary of Attendance 2
Plan and Purpose of University .. 3
Corporate Rights 3
Endowment 3
The Million Dollar Movement. 3
Form of Gifts 4
Form of Bequest 4
Organization 5
The Board of Trustees 6
Meetings of the Board 6
Committees of the Board 7
The University Property 8

THE COLLEGE.

The Faculty and Other Officers .. 13
Alumni Associations 17
Students 19
Graduate 19
The Senior Class 24
The Junior Class 27
The Sophomore Class 31
The Freshman Class 35
Pursuing Special Studies 41
Admission 43
To Freshman Standing 43
To Advanced Standing 47
Honorable Dismission 47
Courses of Study 48
Curricula 50
I. Classical Course 50
II. Philosophical Course 53
III. General Science Course . 58
IV. The Course in Jurisprudence 61
V. The Course in Biology ... 64
VI. The Course in Chemistry. 66
VII. The Course in Engineering 68
Lecture Courses 70
Departments of Instruction 71
Philosophy 71
Law 73
Economic and Political Science 75

PAGE.

Logic and Sociology 76
History 77
Greek Language 79
Latin Language 81
English Language 83
Rhetoric and Oratory 84
Modern Languages 87
Mathematics 90
Chemistry 95
Organic Science 97
Medicine 98
The Biological Laboratory ... 100
The Museum 100
The Libraries and Reading room 101
General College Orders 103
Attendance 103
Standing 103
The Scholarship Society 104
Examinations 104
Public Worship 105
Government 105
Office Hours 105
Voluntary Societies 106
Health and Physical Culture . 107
Aids and Honors 107
Prizes 107
Scholarships 110
Honor Studies 111
Expenses 114
Fifty-third Annual Commencement 116

THE ACADEMY.

Instructors and Other Officers 120
Students 121
The Fourth Form 121
The Third Form 122
The Second Form 124
The First Form 125
Pursuing Select Studies 125
Courses of Study 128
Curricula 129
Methods of Instruction 134
General Information 140

PAGE.
Advantages 140
Government 140
Buildings and Rooms 141
Unfurnished Rooms 141
Articles Required 142
Boarding 142
Appliances 142
School-Room 143
Hours 143
Standing and Promotions 143
Prizes 144
Literary Society 144
Religious Services 144
Expenses 146

THE INSTITUTE.

Instructors and Other Officers 147
Directory of the Alumnæ 148
Students 149
Graduates 149
The Senior Class 149
The Fourth Year Class 149
The Third Year Class 150
The Second Year Class 151
The First Year Class 152
Pursuing Select Studies 152
Courses of Study 155
Curricula 157
Methods of Instruction 163
I. Psychology and Ethics ... 163
II. Literature and Art 163
III. History 163
IV. The English Language .. 164
V. The Latin Language 164
VI. The Greek Language 164
VII. The Modern Languages. 165
VIII. Mathematics 165
IX. Science 166
Physical Culture 167
Æsthetic Culture 168
Social Culture 168
Religious Training 168
Special Branches 169
Public Exercises 169
PAGE.
Alumnæ Societies 170
Students' Loan Society of Bucknell Institute 170
Department of Elocution 171
The Art Department 172
Art Exhibit 173
Students of Art 173
General Information 175
Prizes 178
Expenses 180

SCHOOL OF MUSIC.

Instructors 181
Graduates in 1903 182
Students 183
Piano 183
Voice 184
Pipe Organ 185
Harmony 186
History of Music 187
Violin, Viola, Violoncello, Double Bass 187
Mandolin, Banjo, Guitar 188
Flute, Clarionet and Bass Instruments 189
Courses of Study 191
Instrumental Music 191
Piano 191
Pipe Organ 192
Violin 192
Violoncello 193
Viola 193
Contrebasso 193
Voice Culture 193
Course in Harmony 193
Orchestra 194
Band 194
Recitals 194
Tuition 194
Residence of Music Pupils 195
Graduation in Music 195
Prizes 195
General Remarks 196

Calendar 197

PRESS OF HARPER & BROTHER COMP
PHILADELPHIA.

C
B857H
1904-05

THE LIBRARY
OF THE
UNIVERSITY OF ILLINOIS

Bucknell University Bulletin.

FOURTH SERIES JANUARY, 1905 No. 3

CATALOGUE

...1904-1905...

Published Quarterly by the Bucknell University,
Lewisburg, Pennsylvania.

Entered at the Post Office at Lewisburg, Pa., as Second-Class Matter, July 3, 1901.

THE

FIFTY-FIFTH CATALOGUE

OF THE

OFFICERS AND STUDENTS

OF

Bucknell University:

COLLEGE OF LIBERAL ARTS.

FOR THE YEAR 1904-1905.

DEPARTMENTS.

	PAGES
The College of Liberal Arts	14 to 128
The Academy for Young Men.....	129 to 155
The Institute for Young Women.....	156 to 190
The School of Music for Both Sexes.....	191 to 205

SUMMARY OF ATTENDANCE.

The College of Liberal Arts.....	475
The Academy for Young Men.....	79
The Institute for Young Women.....	98
The School of Music for Both Sexes.....	155
Total (deducting names repeated).....	721

CALENDAR.

The Spring Term Begins.....	Wednesday, March 29, 1905
Annual Commencement.....	Wednesday, June 21, 1905
The Fall Term Begins.....	Thursday, September 21, 1905
The Winter Term Begins....	Wednesday, January 3, 1906

PLAN AND PURPOSE OF THE UNIVERSITY.

CORPORATE RIGHTS.

The University was incorporated with full University privileges by the Legislature of Pennsylvania, in an Act approved by the Governor on the fifth day of February, A. D. 1846. The management of the University is committed to a Board of Trustees, consisting of twenty-five members, or fewer at the option of the Board. The trustees are prohibited, for any cause or under any pretext whatever, from encumbering by mortgage or otherwise the real estate or any other property of the institution. It is required by the charter that no religious sentiments are to be counted a disability to hinder the election of an individual to any office among the teachers of the institution, or to debar persons from attendance as pupils, or in any manner to abridge their privileges or immunities as students in any department of the University.

ENDOWMENT.

The institution has productive investments amounting to over $700,000. The endowment funds, raised at various times, were increased, in 1881, to an even $200,000 William Bucknell contributed to the general fund $115,000, and for scholarships and prizes about $25,000. One hundred thousand dollars additional for endowment was raised in 1892. In 1900, a fund of $75,000 for additional endowment and improvement was completed. An additional hundred thousand dollars of endowment was completed December 31, 1902. The total property of the institution aggregates one million dollars.

THE MILLION DOLLAR MOVEMENT.

The Board of Trustees at its meeting in January, 1903, authorized an effort to increase the endowment by one million dollars. It is expected to obtain this sum by gifts and legacies.

FORMS OF GIFTS.

To persons wishing to leave money for the education of the young, the following forms of beneficence are suggested:

(a) A department can be endowed for $100,000 and upward.

(b) Professorships can be endowed for $50,000 each.

(c) Fellowships can be endowed for $10,000 each.

(d) Scholarships can be endowed by a gift of $1,000 to $5,000, the income to be given toward the expenses of the student. The income will be estimated from the average income of the funds of the institution.

(e) A loan fund should be established. The interest from this could be loaned to students, the principal being kept intact. In this way a large active loan-fund would accumulate.

Each of these forms of beneficence would bear and perpetuate the name of the donor or of the person designated by him.

FORM OF BEQUEST.

To persons desiring to aid in increasing the efficiency of the schools in their work of preparing young men and young women for usefulness, the following form of bequest is recommended:

I give and bequeath to the Bucknell University, at Lewisburg, Pennsylvania, the sum of ..... Dollars for the general purpose of said school, according to the Act of Assembly incorporating the same.

Or if for a special purpose:

I give and bequeath to the Bucknell University, at Lewisburg, Pennsylvania, the sum of ..... Dollars for the establishment (of a Department, Professorship, fellowship, scholarship or loan fund), to bear and perpetuate the name of ..... forever.

ORGANIZATION.

The University comprises four schools:

I. **The College** offers seven Courses of study, each of four years, and each leading to its appropriate Degree:

1. **The Classical Course.**
2. **The Philosophical Course.**
3. **The General Science Course.**
4. **The Course in Jurisprudence.**
5. **The Course in Biology.**
6. **The Course in Chemistry.**
7. **The Course in Civil Engineering.**
8. **The Course in Electrical Engineering.**

II. **The Institute** for young women has three Courses of study, the Literary, the Classical, and the Scientific, leading to diplomas which admit to the Sophomore year in College.

III. **The Academy** is designed to fit young men for College, either for the Classical, Philosophical, Scientific, or Technological courses.

IV. **The School of Music** has full Courses in instrumental and vocal music, and grants diplomas to those who complete any of the specified Courses.

These schools are one corporation, have one President, who has general charge, with a Principal in more immediate charge of each of the subordinate departments. All expenses are met from funds in the hands of a common treasurer.

THE BOARD OF TRUSTEES.

CHAIRMAN, HARRY S. HOPPER, ESQ.,
28 South Third Street, Philadelphia.

SECRETARY, REV. A. JUDSON ROWLAND, D. D., LL. D.,
1420 Chestnut Street, Philadelphia.

TREASURER, REV. DAVID PORTER LEAS, A. M.,
400 South Fortieth Street, Philadelphia.

HON. E. A. ARMSTRONG, A. M.
JOHN P. CROZER, A. M.
COL. JOHN J. CARTER.
CALVIN GREENE, ESQ.
HON. WM. B. HANNA, D. C. L.
PRES. JOHN H. HARRIS, LL. D.
HARRY S. HOPPER, ESQ.
REV. DAVID PORTER LEAS, A.M.
CRAIGE LIPPINCOTT, ESQ.
HON. HAROLD M. McCLURE, A. M.
D. BRIGHT MILLER, A. M.
GEN. CHARLES MILLER, A. M.
GEORGE M. PHILIPS, PH. D.
A. JUDSON ROWLAND, D. D., LL. D.
HON. JOSEPH C. SIBLEY, LL. D.
LEROY STEPHENS, D. D.
JAMES S. SWARTZ, A. M.
HON. JOHN B. STETSON.
HON. F. J. TORRANCE, A. M.
ERNEST L. TUSTIN, A. M., ESQ.
JOSEPH K. WEAVER, A. M., M. D.
HENRY G. WESTON, D. D., LL. D.
HON. SIMON P. WOLVERTON, LL. D.

MEETINGS OF THE BOARD.

The annual meeting is held on Tuesday of Commencement week, at Lewisburg.

The semi-annual meeting is held on the second Thursday of January, at 1420 Chestnut Street, Philadelphia.

COMMITTEES OF THE BOARD.

COMMITTEE ON INSTRUCTION.

Rev. A. JUDSON ROWLAND, D. D., *Chairman.*

Rev. HENRY G. WESTON, LL. D. — Hon. SIMON P. WOLVERTON, LL.D.
Rev. LEROY STEPHENS, D. D. — ERNEST L. TUSTIN, A. M.
Hon. W. B. HANNA, D. C. L. — GEORGE M. PHILIPS, PH. D.

AND THE PRESIDENT.

COMMITTEE ON FINANCE.

JAMES S. SWARTZ, A. M., *Chairman.*

Rev. DAVID PORTER LEAS, A.M. — JOHN P. CROZER, ESQ.
HARRY S. HOPPER, ESQ. — Hon. JOSEPH C. SIBLEY, LL. D.
JOSEPH K. WEAVER, M. D. — Hon. E. A. ARMSTRONG, A. M.
Hon. JOHN B. STETSON. — Hon. FRANCIS J. TORRANCE, A. M.

AND THE PRESIDENT.

COMMITTEE ON BUILDINGS AND LIBRARY.

D. BRIGHT MILLER, A. M., *Chairman.*

CRAIGE LIPPINCOTT, ESQ. — Pres. JOHN H. HARRIS, LL. D.
Hon. SIMON P. WOLVERTON, LL.D. — CALVIN GREENE, ESQ.
Gen. CHARLES MILLER, A. M. — Hon. HAROLD McCLURE, A. M.
Col. JOHN J. CARTER.

COMMITTEE ON PUBLICATION.

Rev. LEROY STEPHENS, D. D., *Chairman.*

Rev. DAVID PORTER LEAS, A. M. — Rev. HENRY G. WESTON, D. D., LL. D.

AND THE PRESIDENT.

THE UNIVERSITY PROPERTY.

I. THE MAIN COLLEGE.

The main College building is situated on a hill one hundred feet above the Susquehanna River, and overlooks scenery of unsurpassed beauty. It was designed by Thomas U. Walter, LL. D., architect of the dome and wings of the Capitol at Washington, D. C., and is in the Grecian style, combining dignity and simplicity. The building has a façade of three hundred and twenty feet. The central portion is eighty feet square, and is strengthened in front by four massive columns. On the first floor are six recitation rooms. On the second floor are the halls of the Theta Alpha and Euepia Literary Societies, the Library-rooms, Reading-room, and Museum of Natural History.

In the third story is Commencement Hall, with a seating capacity of fifteen hundred.

The wings on the eastern and western sides, respectively, of the Main Building, are each one hundred and twenty feet in length and four stories in height, and are used for students' rooms.

Several thousand dollars have been expended recently in improving the College building.

II. THE WEST COLLEGE.

The West College was erected in the year 1900. It is constructed of brick, four stories in height, and contains ninety-seven rooms, one of which is a hall for the use of the Young Men's Christian Association, another a reading-room, and the others are designed for the residence of students.

III. THE BUCKNELL HALL.

Bucknell Hall is the Chapel of the College. In it all the students of the College meet daily for worship.

IV. THE CARNEGIE LIBRARY BUILDING.

The new Library building, the gift of the Honorable Andrew Carnegie, D. C. L., is expected to be ready for use at the opening of the school year, September 21, 1905.

The building will be sixty-four feet by ninety, built of pressed brick, and trimmed with brownstone. The center, thirty feet by ninety, will be used as a reading-room, and will be open to the roof and lighted by skylights. At the height of sixteen feet there will be a gallery extending around the room. The sides, each fifteen feet by ninety, will, on the first floor, be divided into rooms for special collections and for offices. The second and third floors will be used for stack rooms. The building will accommodate about 150,000 volumes.

V. THE OBSERVATORY.

The Observatory was erected in 1887 and enlarged in 1905. It is designed for the use of students in Practical Astronomy.

The equipment represents the latest improvements in astronomical instruments. It consists of a Clark Equatorial Telescope of 10 inches aperture and 12½ feet focal length, furnished with a fine position Micrometer and all the usual accessories; a Spectroscope, with prism and grating by Brashear; a 3-inch prismatic Transit, with a 13-wire movable Micrometer, a Fauth Chronograph with Bond Spring Governor; a Waldo Precision Clock for sidereal time, with mercurial compensation, break circuiting apparatus; Daniell's battery and telegraph sounders; a Seth Thomas Clock for

solar time; a Sextant; a 3-inch Altitude Azimuth Refractor; a set of Meteorological instruments; Celestial globes and maps, and standard works on Theoretical and Practical Astronomy.

VI. THE CHEMICAL LABORATORY.

The Laboratory was erected in 1890, and is a building forty-three feet in width and eighty-six feet in length, with two stories above the basement. In the first story, which has a clear height of fifteen feet, are a lecture-room, with seating for one hundred and twenty-five students, and a large working-room, in which are tables for individual work in Chemical Analysis; the second floor contains a lecture-room and rooms for laboratory work in Organic Science; the basement has a dark-room for Photometry, a room for Applied Chemistry, and a fire-proof room.

VII. THE PHYSICAL LABORATORY.

The Physical Laboratory was erected in 1902. It is a building of two stories, fifty by sixty, constructed of brick trimmed with brownstone. The basement serves for the heating and lighting plant of the institution; the main story, with one room twenty by fifty and another forty by forty-five, accommodates the Department of Physics. A large dark-room was added to the equipment in 1905.

VIII. THE TUSTIN GYMNASIUM.

The basement of the Gymnasium is built of stone, and contains an office for the director, rooms for students' lockers, dressing-rooms, and shower baths. The second story is built of brick, rising twenty-two feet from the main floor to the square, and is open to the roof. At the height of twelve feet a running-track gallery, six feet wide, surrounds the room.

IX. THE ATHLETIC FIELD.

The field is conveniently located at the foot of "College Hill," and has been graded and fitted up for out-door sports. In the northwest corner, at the main entrance to the college grounds, a shaded section has been set aside for tennis. The athletic field is sufficiently large for foot-ball, base-ball, and lacrosse. A running track, a quarter-mile in length, has been constructed on the eastern part of the campus. The Tustin Gymnasium is located at the end of the field, so as to be near the center of exercise, and easily accessible to the trainers and students.

X. THE ACADEMY.

1. **The Main Building** of the Academy is situated on "College Hill," and is fifty feet in width by eighty feet in length, and three stories in height. On the first floor is a dining-room, thirty feet by thirty-six feet; two recitation-rooms, a reception-room, and the Principal's office; on the second floor are suites of rooms for the Principal and his family and for the Matron. The third floor is used for students' rooms, each twenty feet by twelve feet, and fourteen feet high.

2. **The East Hall** of the Academy is the Bucknell Cottage for young men, and is contiguous to the main building and connected with it by a covered passageway. It is of brick, three stories high, sixty feet in length and forty feet in width, and is finished in natural wood. The building contains a general study-room, a recitation-room, teachers' apartments, and rooms for students. The rooms have high ceilings, large double windows with inside shutters, and two commodious closets each.

Both buildings are supplied with hot and cold water and are warmed by steam.

XI. THE DEPARTMENT FOR WOMEN.

The buildings and campus of this department are set apart for the use of women taking courses in the College, in the Institute, and in the School of Music.

1. **The Main Building** contains, on the first floor, an office for the Dean and the Registrar, a reception-room, the office of the Director of Music, five music-rooms, two recitation-rooms, and a dining-hall; on the second floor, a school-room and a parlor; on the third floor, a library-room, teachers' apartments, and students' rooms.

2. **The South Hall,** erected in 1869, is devoted to students' rooms, except the third story, which is used as a gymnasium. This gymnasium has been lately improved and equipped.

3. **The Bucknell Cottage** stands to the southwest of the Main Building, and is connected with it by an enclosed passageway. It is built of brick, in the Queen Anne style of architecture, and has dimensions of forty feet by one hundred feet. The interior is finished in natural wood, and is equipped, in matters of light, heat, and ventilation, with modern improvements.

The portion allotted to students' rooms affords accommodations for forty occupants. These rooms are in suites on the general plan of a center parlor, with bed-rooms and closets on either side. In this building is the **Studio,** a spacious room with such adjustments for the admission of light and supply of unencumbered wall surfaces as adapt it for the execution and display of art products.

4. **A New Cottage** for women, with a front of one hundred and twenty-eight feet and a depth of forty feet, rising three stories above the basement, is in process of erection and will be ready for use at the opening of the fall term, September 21, 1905.

All the buildings are supplied with hot and cold water, and are warmed by steam.

5. **The Campus** of the Women's Department comprises six acres, separated from the college grounds by Loomis Street.

XII. HEATING AND LIGHTING PLANT.

A central steam heating and electric lighting plant has been erected; all the rooms, public and private, in the several buildings of the institution are warmed and lighted from this plant.

XIII. THE PRESIDENT'S HOUSE.

The Corporation also owns a house for the use of the President of the University.

THE COLLEGE.

THE FACULTY AND OTHER OFFICERS.

JOHN HOWARD HARRIS, PH. D., LL. D., PRESIDENT,
AND PROFESSOR OF PSYCHOLOGY AND ETHICS.

*FREEMAN LOOMIS, A. M., PH. D.,
PROFESSOR OF MODERN LANGUAGES AND LITERATURE.

GEORGE G. GROFF, M. D., PH. D., LL. D.,
PROFESSOR OF ORGANIC SCIENCE.

WILLIAM CYRUS BARTOL, A. M., PH. D.,
PROFESSOR OF MATHEMATICS AND ASTRONOMY.

FRANK ERNEST ROCKWOOD, A. M., LL. D.,
PROFESSOR OF THE LATIN LANGUAGE AND LITERATURE
AND DEAN OF THE COLLEGE.

WILLIAM GUNDY OWENS, A. M.,
PROFESSOR OF CHEMISTRY.

ENOCH PERRINE, A. M., LITT. D.,
PROFESSOR OF THE ENGLISH LANGUAGE AND LITERATURE,
AND SECRETARY OF THE FACULTY.

* Retired.

THOMAS FRANKLIN HAMBLIN, A. M.,

NEW JERSEY PROFESSOR OF THE GREEK LANGUAGE AND LITERATURE.

WILLIAM EMMET MARTIN, A. M.,

PROFESSOR OF SOCIOLOGY AND ANTHROPOLOGY.

NELSON FITHIAN DAVIS, SC. D.,

PROFESSOR OF BIOLOGY.

EPHRAIM M. HEIM, PH. D.,

PROFESSOR OF ECONOMIC AND POLITICAL SCIENCE.

GUIDO CARL LEO RIEMER, A. M.,

PROFESSOR OF MODERN LANGUAGES.

LLEWELLYN PHILLIPS, A. M.,

JOHN P. CROZER PROFESSOR OF RHETORIC AND ORATORY.

CALVIN AURAND HARE, A. M.,

PROFESSOR OF CHRISTIAN EVIDENCES AND LOGIC.

THOMAS ADDIS EDWARDS, A. M.,

PROFESSOR OF PEDAGOGY, AND DEAN OF THE DEPARTMENT FOR WOMEN.

HENRY THOMAS COLESTOCK, A. M., PH. D.,

PROFESSOR OF HISTORY.

ELYSEE AVIRAGNET, A. M., MUS. DOC.,

PROFESSOR OF THE ROMANCE LANGUAGES.

JOSEPH MEIXELL WOLFE, A. M.,

ASSISTANT PROFESSOR OF MATHEMATICS.

CHARLES ARTHUR LINDEMANN, A. M.,

ASSISTANT PROFESSOR OF APPLIED MATHEMATICS.

FRANK MORTON SIMPSON, SC. M.,

ASSISTANT PROFESSOR OF MECHANICAL DRAWING AND PHYSICS.

FLOYD GEORGE BALLENTINE, PH. D.,

ASSISTANT PROFESSOR OF LATIN.

PAUL EMIL WEITHAASE, A. M.,

ASSISTANT PROFESSOR OF GERMAN.

BROMLEY SMITH, A. M.,

INSTRUCTOR IN ORATORY AND RHETORIC.

GEORGE STEPHEN TILLEY, A. M.,

INSTRUCTOR IN CHEMISTRY.

WILLIAM CULLEN KEOUGH, A. B.,

INSTRUCTOR IN FRENCH.

WILLIS EDGAR MANEVAL, PH. M.,

ASSISTANT IN BIOLOGY.

MARY UNGER, A. B.,

ASSISTANT IN ENGLISH.

HAROLD MURRAY McCLURE, A. M.,

PRESIDENT JUDGE, SEVENTEENTH JUDICIAL DISTRICT,

LECTURER ON CONTRACTS AND PRACTICE.

FREDERICK EVANS BOWER, A. M.,

ATTORNEY-AT-LAW.

LECTURER ON EVIDENCE AND EQUITY.

ALBERT WILLIAM JOHNSON, A. M.,

ATTORNEY-AT-LAW.

LECTURER ON REAL AND PERSONAL PROPERTY.

WILLIAM LEISER, M. D.,

LECTURER ON DIAGNOSIS.

WEBER L. GERHART, M. D.,

LECTURER ON ANATOMY.

CHARLES ALEXANDER GUNDY, M. D.,

LECTURER ON SURGERY.

* LEMUEL MOSS, D. D., LL. D.,

LECTURER ON SOCIAL SCIENCE.

BENAIAH L. WHITMAN, LL. D.,

LECTURER ON PRACTICAL ETHICS.

WAYLAND HOYT, D. D., LL. D.,

LECTURER ON ORATORY.

WILLIAM EMMET MARTIN, A. M.,

LIBRARIAN.

WILLIAM CHRISTIAN GRETZINGER, A. M.,

REGISTRAR OF THE UNIVERSITY.

REV. CALVIN AURAND HARE, A. M.,

FINANCIAL SECRETARY.

* Deceased.

ALUMNI ASSOCIATIONS.

The General Alumni Association.

President, Hon. JOHN B. COOK, A. M., Denver, Col.
Secretary, Prof. W. G. OWENS, A. M., Lewisburg.

The Alumni Club of Philadelphia.

President, SAMUEL LEWIS ZIEGLER, SC. D., M. D., Philadelphia.
Secretary, JOSEPH ROBERT WOOD, A. M., Philadelphia.

The Alumni Club of New York City.

President, T. A. K. GESSLER, D. D., New York City.
Secretary, W. R. MAUL, PH. B., Brooklyn, N. Y.

The Alumni Club of Pittsburg.

President, JOHN SPEED HUTSON, D. D., Allegheny.
Secretary, WILLIAM M. WOODWARD, M. D., McKeesport.

The Alumni Club of the University of Chicago.

President, A. R. E. WYANT, PH. D., Chicago.
Secretary, JOSEPH C. HAZEN, PH. B., Chicago.

The Alumni Club of Northeastern Pennsylvania.

President, WILLARD MAINE BUNNELL, A. B., ESQ.,
Secretary, CHARLES W. DAWSON, ESQ., Scranton.

The Alumni Club of Harrisburg.

President, JOHN C. NISSLEY, A. M., ESQ., Harrisburg.
Secretary, HARVEY F. SMITH, M. D., Harrisburg.

The Alumni Club of Washington City.

President, HENRY H. BLISS, A. M., ESQ., Washington, D. C.
Secretary, A. F. ANDERSON, A. B., Washington, D. C.

The Alumni Club of Central Pennsylvania.

President, JUDGE MARTIN BELL, A. M., Hollidaysburg.
Secretary, S. F. FORGEUS, D. D., Huntingdon.

The Alumni Club of Williamsport.

President, PROF. W. W. KELCHNER, A. M., Williamsport.
Secretary, CLARENCE A. WEYMOUTH, SC. B., Lock Haven.

The Alumni Club of Lewisburg.

President, ANDREW A. LEISER, A. M., ESQ., Lewisburg.
Secretary, CHARLES J. WOLFE, A. M., Lewisburg.

The Alumni Club of Sunbury.

President, GEORGE EDWARD DEPPEN, A. B.
Secretary, CULLEN FRAZER SHIPMAN, A. B.

NAMES OF STUDENTS.

GRADUATE STUDENTS.

NAME.	MAJOR SUBJECT.	RESIDENCE.
ESTELLA MAY ALBRIGHT, A. B.,	*Education.*	Mifflinburg
ARCHIBALD MERRILL ALLISON, A. B.,	*History.*	Spring Mills
CHARLES FAYETTE ARMOUR, PH. B.,	*History.*	Girard
LYNDON ERNEST AYRES, A. B.,	*Language.*	Jenkintown
EDNA LORINE BACON, A. B.,	*Classics.*	Dividing Creek, N. J.
BLANCHE ALLYN BANE, PH. B.,	*English.*	Norristown
EDWARD BELL, JR., A. B.,	*Mathematics.*	Frankford
CHARLES FRANKLIN BIDELSPACHER, A. B.,	*Jurisprudence.*	Williamsport
BENJAMIN FRANKLIN BIEBER, A. B.,	*Sociology.*	Pottsgrove
GEORGE RIPLEY BLISS, A. B.,	*Mathematics.*	Washington, D. C.
HARRY SILVERWOOD BOGAR, PH. B.,	*Economics.*	Herndon
CHARLES ISAIAH BOYER, PH. B.,	*Jurisprudence.*	Wyncote
REMEMBRANCE FORDE BRESNAHAN, A. B.,	*Greek.*	Ringoes, N. J.
BENJAMIN KANE BRICK, SC. B.,	*Organic Science.*	Marlton, N. J.
PERCY MYRON BULLARD, A. B.,	*History.*	Williamsport
EMANUEL WILSON COBER, SC. B.,	*Science.*	Philadelphia

NAME.	MAJOR SUBJECT.	RESIDENCE.
ELVA SARAH COLEMAN, PH. B.,	*English Literature.*	Reynoldsville
JOSEPH HUTCHINSON COOKE, PH. B.,	*New Testament Greek.*	Picture Rocks
GEORGE T. COOPER, SC. B.,	*English Literature.*	Lewistown
THOMAS EDWARD CULE, PH. B.,	*Education.*	Plymouth
MARGARET PROTHEROE DAVIES, SC. B.,	*Literature.*	Scranton
ANNA ZOE DAVIS, PH. B.,	*Literature.*	Carlisle
JOHN DAVIS, A. B.,	*Classics.*	Nanticoke
JOHN WARREN DAVIS, A. B.,	*Jurisprudence.*	Pedricktown, N. J.
GERTRUDE JANE DEPPEN, SC. B.,	*History.*	Mt. Carmel
FRANK WEBER DILLON, A. B.,	*Literature.*	Erie
CHARLES HODGE EALY, A. B.,	*Jurisprudence.*	Schellsburg
EMMA REBEKAH EBLING, A. B.,	*Language.*	Atlanta, Ga.
MINNIE GERTRUDE ECKELS, PH. B.,	*Literature.*	Shippensburg
RACHEL EDNA EDDELMAN, PH. B.,	*History.*	Greensburg, Ind.
CHARLES FRED EISENMENGER, A. B.,	*German.*	Rochester, N. Y.
WALLACE WILMER FETZER, PH. B.,	*History.*	Milton
AMZI WILSON GEARY, PH. B.,	*History.*	Carbondale
CARRIE LOUISE GEARY, PH. B.,	*History.*	Carbondale
MARIA MAUDE GODDARD, A. B.,	*Classics.*	New Orleans, La.
BENJAMIN W. GRIFFITH, PH. B.,	*History.*	Lock Haven
CARRIE JEANNETTE HALFPENNY, SC. B.,	*Literature.*	Milton

NAME.	MAJOR SUBJECT.	RESIDENCE.
VELOLA E. HALL, A. B.,	*Language.*	Sharon
CHARLES ELLSWORTH HANKEY, A. B.,	*Philosophy.*	Kittanning
JULIUS ROBERT HAYES, PH. B.,	*Science.*	Montoursville
JOSEPH CHALMERS HAZEN, PH. B.,	*Sociology.*	Green Bay, Wis.
JOHN ERB HUNSBERGER, A. B.,	*Hebrew.*	Chester
JOHN THOMAS HYATT, PH. B.,	*Jurisprudence.*	Jersey Shore
JOHN C. JOHNSON, SC. B.,	*Organic Science.*	Red Top
SARAH ETHEL JUDD, SC. B.,	*Literature.*	Lewisburg
JAMES LLOYD KALP, PH. B.,	*Economics.*	Mt. Pleasant
WILLIAM LAWRENCE KALP, A. B.,	*Science.*	Mt. Pleasant
ALBERT GEORGE KARGE, PH. B.,	*Language.*	Camden, N. J.
ROYAL IVAN KNAPP, A. B.,	*Education.*	Ridgway
CHARLES DISON KOCH, PH. B.,	*Education.*	Philipsburg
RALPH FREDERICK KOONS, PH. B.,	*History.*	Conyngham
EDWARD CHARLES KUNKLE, A. B.,	*History.*	Scottdale
MARY EDNA THATCHER KYLE, SC. B.,	*Science.*	Columbia, S. C.
THOMAS PHILLIPS KYLE, PH. B.,	*Literature.*	Columbia, S. C.
JOHN GRANT LAUDERBAUGH, A. B.,	*Bible.*	Oswego, N. Y.
SARAH ESTHER LEE, A. B.,	*Classics.*	Jermyn
MARY LILA LONG, A. B.,	*English Literature.*	Williamsport
IDA EVALINE LUCHSINGER, A. B.,	*History.*	Atlanta, Ga.

NAME.	MAJOR SUBJECT.	RESIDENCE.
WILLIAM NOGEL MARSH, SC. B.,	*Jurisprudence.*	Ann Arbor, Mich.
HARRY SILL MAUSER, SC. B.,	*Science.*	McEwensville
JOSEPH EDWARD MILLEN, PH. B.,	*Literature.*	Stanton
CHARLES FRANKLIN MCMANN, A. B.,	*Philosophy.*	Rosedale, Kansas
ANNA ELIZABETH NOAKER, PH. B.,	*German.*	Milton
EDITH LEE PHILLIPS, A. B.,	*Classics.*	Plymouth
WILLIAM CAREY PURDY, SC. B.,	*Organic Science.*	Slippery Rock
FRANCES ANNA RACE, A. B.,	*Literature.*	Scranton
PHILLIP REILLY, A. B.,	*Education.*	Orwell
CHESTER BENJAMIN RENN, A. B.,	*History.*	Montoursville
WALTER KREMER RHODES, PH. B.,	*Mathematics.*	Fairplay
DAVID HOWARD ROBBINS, A. B.,	*History.*	Philipsburg
FREDERICK W. ROBBINS, PH. B.,	*History.*	Bethlehem
OLIVE SCHILLINGER, A. B.,	*Literature.*	Martin's Ferry, Ohio
FRANCES GERTRUDE SCOTT, SC. B.,	*Science.*	Lewisburg
HELEN AGATHA SELINGER, A. B.,	*Science.*	McKean
THORNTON MOORE SHORKLEY, PH. B.,	*Organic Science.*	Philadelphia
FRANKLIN ISAAC SIGMUND, A. B.,	*Education.*	Everett
AMANDUS MERKLE SMITH, A. B.,	*Mathematics.*	Elkhart, Ind.
ARTHUR ANSON SMITH, PH. B.,	*Jurisprudence.*	Williamsport
SAMUEL CALVIN SMITH, SC. B.,	*Science.*	Philadelphia

NAME.	MAJOR SUBJECT.	RESIDENCE.
RALPH RENSSAELER SNOW, A. B.,	*History.*	East Cleveland, Ohio
JAMES WILSON SNYDER, A. B.,	*Jurisprudence.*	Berwick
CLOYD NILLIS STEININGER, SC. B.,	*Jurisprudence.*	Lewisburg
ROBERT JOSEPH TERRELL, A. B.,	*History.*	New York City
CHARLES MILTON TEUFEL, A. B.,	*Political Science.*	Milton
LEVI JOSEPH ULMER, SC. B.,	*Education.*	Williamsport
MABELLE ESTELLE WHEELER, PH. B.,	*Literature.*	Erie
AUGUSTA GENEVIEVE WHITE, SC. B.,	*Organic Science.*	Bradford
BENJAMIN FRANKLIN WHITE, JR., A. B.,	*Organic Science.*	Bradford
CHARLES WESLEY WILLIAMS, A. B.,	*Greek.*	Palmer, Mass.
HOWARD KING WILLIAMS, A. B.,	*Philosophy.*	Philadelphia
JOHN E. WILLIAMS, SC. B.,	*Education.*	Olyphant
ROGER HENRY WILLIAMS, PH. B.,	*History.*	Chester
THOMAS LAMAR WILLIAMS, SC. B.,	*Organic Science.*	Mt. Carmel
SAMUEL GARBER WILLIAMS, PH. B.,	*Jurisprudence.*	Greensburg
RUTLEDGE THORNTON WILTBANK, PH. B.,	*Bible.*	Hollidaysburg
CLYDE DALE WOLFE, SC. B.,	*Jurisprudence.*	Ann Arbor, Mich.
JENNY MAY WOOD, A. B.,	*Literature.*	Factoryville
JOHN ADAM YOUNG, PH. B.,	*Education.*	Kane
WILLIAM D. ZERBY, A. B.,	*Literature.*	Bellefonte

GRADUATE STUDENTS, 99.

THE SENIOR CLASS.

CLASS OF 1905.

NAME.	RESIDENCE.	ROOM.
COTTIE GUDILA ALBRIGHT,	*Lewisburg.*	Market Street
JEREMIAH STAMEY AUSHERMAN,	*Chambersburg.*	No. 9, East Wing
WILLIAM ANDREW BARTOL,	*Lewisburg.*	University Avenue
RALPH LESHER BELFORD,	*Milton.*	Milton
EMORY OLIVER BICKEL,	*West Milton.*	West Milton
JOSEPH S. BITTENBENDER,	*Nanticoke.*	No. 65, West College
ROY GRIER BOSTWICK,	*Du Bois.*	No. 65, West College
MARY ISABEL BOWER,	*Lewisburg.*	South Sixth Street
FERNE FRICK BRADDOCK,	*Mt. Pleasant.*	Women's College
LAVERDA ADELIA BURGART,	*Altoona.*	Women's College
WILLIAM FRANK CARUTHERS,	*Irwin.*	No. 5, West College
GEORGE WASHINGTON CHEESMAN,	*Philadelphia.*	No. 9, East Wing
GEORGE WASHINGTON COCKILL,	*Pottsville.*	No. 78, West College
CLAIRE MARIE CONWAY,	*Greenville.*	Women's College
CHARLES DAVID COOPER,	*Adamstown.*	No. 78, West College
HARRY ALLEN CORYELL,	*Shamokin Dam.*	No. 54, West College
VIDA DAVENPORT,	*Baltimore, Md.*	Women's College
JOHN HENRY EISENHAUER, JR.,	*Kelly Point.*	No. 12, West Wing
JAMES EDWARD ELLIOTT,	*New Castle.*	No. 14, East Wing

NAME.	RESIDENCE.	ROOM.
RALPH ELLIOTT,	*Tower City.*	No. 52, West College
MARGARET FORGEUS,	*Huntingdon.*	Women's College
CLARENCE LYNN FRY,	*Harrisburg.*	No. 22, West College
EDMUND ROY GARDNER,	*McKeesport.*	No. 87, West College
WILLIAM S. GILMORE,	*Williamsport.*	No. 2, West Wing
NELLIE MAY GODDARD,	*Lewisburg.*	South Water Street
LYNN SUMNER GOODMAN,	*Loganton.*	St. George Street
WILLIAM AMOS WARREN GRIER,	*Salem, N. J.*	No. 64, West College
JOHN CHARLES GROFF,	*Lewisburg.*	Lewisburg
LEVI MORRILL HAINER,	*Norristown.*	No. 51, West College
ROY HANNA,	*Bradford.*	South Seventh Street
FREDERICK B. HARDING,	*Milton.*	Milton
NORMAN ELWOOD HENRY,	*Williamsport.*	No. 32, West Wing
PHARES GROSS HESS,	*Manheim.*	No. 5, East Wing
CLARA MAUDE HUMMEL,	*Kratzerville.*	Market Street
ELMER AZIMA HUMMEL,	*Kratzerville.*	Market Street
LAURA MAE HUMMEL,	*Kratzerville.*	Market Street
LEWIS COLUMBUS HYLBERT,	*Clarksburg, W. Va.*	No. 11, East Wing
ERSKINE JARRETT,	*Montgomery.*	South River Road
NELLIE ESTELLA JOHNSON,	*Mount Carmel.*	Women's College
EDITH HEDGES KELLY,	*Lewisburg.*	South Third Street

NAME.	RESIDENCE.	ROOM.
HAROLD VONIEDA LESHER,	*Northumberland.*	South Fifth Street
LENA RUTH LESHER,	*Northumberland.*	South Fifth Street
DONALD ROCKEFELLER MCCAIN,	*Colorado Springs, Colo.*	No. 58, West College
FRANCIS LEROY MCCAULEY,	*Horseheads, N. Y.*	No. 10, West Wing
JESSIE MCFARLAND,	*Watsontown.*	Watsontown
ROBERT BRUCE MACKEY,	*Waverly.*	St. George Street
CHARLES STEPHEN MARSH,	*New Bethlehem.*	No. 41, West College
ELIZABETH BRITON MEEK,	*Allenwood.*	Allenwood
EARL AUSTIN MORTON,	*Dravosburg.*	No. 88, West College
WILLIAM CLAYTON NOLL,	*Sayville, N. Y.*	Lewisburg
INEZ EDNA OLDS,	*Elmhurst.*	University Avenue
CLARENCE IRA PHILLIPS,	*Turbotville.*	No. 8, East Wing
WILLIAM WALLACE PORTSER,	*Greensburg.*	No. 23, West College
LEE RUSSELL RANCK,	*Lewisburg.*	No. 9, East Wing
VERNON NELSON ROBBINS,	*St. Paul, Minn.*	St. George Street
ROBERTS DALE ROYER,	*Huntingdon.*	No. 95, West College
JOHN CALVIN SANDERS,	*Vicksburg.*	Vicksburg
CHARLES HENRY SCHEICK,	*Uniontown.*	No. 13, West Wing
BLAINE WALTER SCOTT,	*Monongahela.*	No. 16, West Wing
SAMUEL MAJOR SEIBERT,	*Coudersport.*	No. 19, West College
ROBERT FRANCIS SHEPPARD,	*Cedarville, N. J.*	No. 1, East Wing

NAME.	RESIDENCE.	ROOM.
Ruth Amelia Shorkley,	*Lewisburg.*	South Third Street
John Beisel Smiley,	*Titusville.*	No. 15, West College
Paul Garfield Smith,	*Harrisburg.*	No. 57, West College
Pearl Lois Smith,	*Erie.*	South First Street
Anthony Steinhilper,	*South Williamsport.*	No. 10, West Wing
Ruth Stephens,	*Lewisburg.*	South Sixth Street
Eva Blanche Stoner,	*Alverton.*	Women's College
James Strimple, Jr.,	*Pedricktown, N. J.*	No. 71, West College
James Taggart,	*Frackville.*	No. 52, West College
Nellie Thomas,	*Philipsburg.*	Women's College
Harold Edward Tiffany,	*Lewisburg.*	No. 3, West Wing
Albert Ogden Vorse,	*Lewisburg.*	North Fourth Street
Alvin Monroe Weaver,	*Muncy.*	No. 11, West Wing
Clifford Vernon Williamson,	*Salladasburg.*	No. 56, West College
Thomas Wood,	*Muncy.*	No. 48, West College
Martha Wolfe,	*Lewisburg.*	South Third Street
Irwin Wellington Ziegler,	*Linden Hall.*	No. 24, West Wing

SENIORS, 78.

THE JUNIOR CLASS.

CLASS OF 1906.

NAME.	RESIDENCE.	ROOM.
Florence Louise Bacon,	*Canton.*	Women's College
James Riley Bailey,	*Greensburg.*	No. 15, West Wing
Genus Ebert Bartlett,	*Webster, W. Va.*	No. 11, East Wing
Amos Ethan Barton,	*Vilas.*	No. 13, West Wing
Edwin Anthony Beaver,	*Huntingdon.*	No. 94, West College
Elbert Little Blakeslee,	*Montrose.*	Market Street
Norman Eugene Bliss,	*Washington, D. C.*	South Third Street
Sophia Louisa Bodler,	*Germania.*	Women's College
Norris Levis Brown,	*West Chester.*	No. 30, West Wing
John Ira Catherman,	*Lewisburg.*	St. Louis Street
Joseph Leighton Challis,	*Waverly.*	No. 23, West Wing
Burleigh Claypool,	*Kittanning.*	No. 6, East Wing
Florence Jeanette Cobb,	*Coudersport.*	Women's College
Harold Newton Cole,	*Du Bois.*	No. 55, West College
Clarence Burnap Comstock,	*Grover.*	No. 4, East Wing
William Thomas Coverdale,	*Lewisburg.*	South Sixth Street
William Eugene DeMelt,	*South Waterloo, N. Y.*	South Third Street
John Grover Denninger,	*Great Valley, N. Y.*	No. 4, East Wing
Harvey O. Dietrich,	*Krumsville.*	No. 12, West College

NAME.	RESIDENCE.	ROOM.
Linn Clark Drake,	*Tunkhannock.*	No. 23, West Wing
Andrew Curtis Feinour,	*Lewisburg.*	No. 17, East Wing
Fred Voris Follmer,	*Milton.*	Milton
Sara Cyrena Furman,	*Wellsboro.*	Women's College
Benajah Jack Gardner,,	*Factoryville.*	No. 23, West Wing
George McCracken Gaskill,	*Newport, N. J.*	No. 4, West Wing
Maurice Frank Goldsmith,	*Carnegie.*	No. 31, West Wing
John Wallace Greene,	*Norristown.*	No. 90, West College
George Bailey Harris,	*Lewisburg.*	University Avenue
Romaine Hassrick,	*Muncy.*	No. 50, West College
Armel Boltz Heffling,	*Mt. Pleasant.*	No. 3, East Wing
John Franklyn Hennessy,	*Irwin.*	No. 75, West College
Leroy W. Hoon,	*Monongahela.*	No. 77, West College
Charles McCallum Howell, Jr.,	*Northumberland.*	No. 91, West College
Walter Jarrett,	*Sunbury.*	No. 83, West College
Addie Ellen Johnston,	*Scotch Plains, N. J.*	South Fourth Street
Henry Jones,	*Plymouth.*	No. 12, West Wing
Augustus Sheridan Kech,	*Snow Shoe.*	No. 16, West Wing
Hazel Louise Knapp,	*Bristol, Ind.*	South Sixth Street
Charles Aaron Knupp,	*Penbrook.*	No. 59, West College
Edith E. Lane,	*Ulysses.*	Women's College

NAME.	RESIDENCE.	ROOM.
Robert Benjamin Leighou,	*Northumberland.*	No. 47, West College
Henry Johnson Lose,	*Williamsport.*	No. 34, West College
Joseph Cipriano Macro,	*Reynoldsville.*	No. 79, West College
Carrie May McCaskie,	*East Orange, N. J.*	Women's College
Clay Montgomery McCormick,	*Lock Haven.*	St. George Street
Catherine Fraser MacLaggan,	*Lewisburg.*	South Third Street
Grace Lenore Meek,	*Reynoldsville.*	Women's College
Henry Taylor Meyer,	*Rebersburg.*	No. 4, West Wing
Harry Lyman Miller,	*Wiconisco.*	No. 12, East Wing
Carl Lyon Millward,	*Mt. Pleasant.*	No. 68, West College
Mary Montfort Moll,	*Mahanoy City.*	Women's College
Helen Moe Olds,	*Lewisburg.*	University Avenue
James Theodore Park,	*Montandon.*	No. 25, West Wing
Homer Derial Pease,	*Scranton.*	No. 11, West College
Benjamin Earl Phillips,	*Brinkerton.*	No. 19, East Wing
Thomas Benjamin Powell,	*Scranton.*	No. 76, West College
Helen Elizabeth Rickabaugh,	*Altoona.*	Women's College
Frederick A. Riegel,	*Lehighton.*	No. 77, West College
Edwin Warren Rumsey,	*Lewisburg.*	South Seventh Street
Silas Howard Schoch,	*Selins Grove.*	No. 27, West College
Penrose Herr Shelley,	*Port Royal.*	No. 85, West College

NAME.	RESIDENCE.	ROOM.
Horace Jones Sheppard,	*Cedarville, N. J.*	No. 2, East Wing
James Leigh Shields,	*Lewisburg.*	North First Street
John Daniel Peck Smithgall,	*Trout Run.*	St. George Street
Clark Snyder,	*Bloomsburg.*	No. 21, West Wing
Dickson Shaw Stauffer,	*Mt. Pleasant.*	No. 92, West College
Harry Thomas Stevenson,	*Sharon.*	No. 27, West College
Frank Laton Stewart,	*Vandergrift.*	No. 30, West Wing
Edward Dwight Thomas,	*Lansford.*	No. 33, West College
Ardis Clair Thompson,	*Franklin.*	South Third Street
Sarah Ella Unger,	*Union Corner.*	Women's College
Abram Pierce Waltz,	*Elimsport.*	No. 8, West Wing
Courtney A. Wheeler,	*Titusville.*	No. 8, East Wing
Athol Vern Wise,	*New Millport.*	No. 53, West College
Chester Lyle Wynne,	*Warwick.*	No. 93, West College
Carl Shultz Yingling,	*Jersey City, N. J.*	No. 2, East Wing
Frank Landis Yost,	*Lock Haven.*	No. 90, West College
Mary Elizabeth Young,	*Lewisburg.*	South Seventh Street

JUNIORS, 78.

THE SOPHOMORE CLASS.

CLASS OF 1907.

NAME.	RESIDENCE.	ROOM.
HOMER HASTINGS ADAMS,	*Grange.*	No. 29, East Wing
PERCY CHESTER ANDREWS,	*New Bethlehem.*	No. 26, West College
CARLETON GILFILEN APP,	*Lewisburg.*	South Fourth Street
WENDELL MCMINN AUGUST,	*Brockwayville.*	No. 53, West College
CHARLES DARCIE BAER,	*Connellsville.*	No. 17, West Wing
IRENE EMMA BARTON,	*Torresdale.*	Women's College
CLARENCE ANTHONY BERNHARD,	*Hoyt.*	No. 14, East Wing
CLARA BLACK,	*Union City.*	South Sixth Street
FREDERIC RUSSELL BOWER,	*Lewisburg.*	South Sixth Street
CHAUNCEY EUGENE BROCKWAY,	*Sharon.*	No. 44, West College
ERNEST SABIN BURROWS,	*Picture Rocks.*	No. 70, West College
PETER GARFIELD COBER,	*Pine Hill.*	No. 22, East Wing
MALCOM PURDY DAVIS,	*Allenwood.*	No. 7, East Wing
VERA ELLICE DUNCAN,	*Cross Fork.*	Women's College
JAMES ELLIOTT, JR.,	*Chestnut Hill.*	No. 72, West College
WILLIAM FREDERIC ELSESSER,	*Philadelphia.*	No. 3, West Wing
GORDON EVANS,	*Scranton.*	No. 22, West Wing
ELLISON MCLEAN FASSETT,	*Canton.*	St. George Street
BOYD MORSE FRYMIRE,	*Watsontown.*	Watsontown

NAME.	RESIDENCE.	ROOM.
ANNA GALBRAITH,	*Williamsport.*	Women's College
MARY EARLEY GALBRAITH,	*Williamsport.*	Women's College
MABEL ELIZABETH GLEASON,	*Canton.*	Women's College
CHESTER HAROLD GODSHALL,	*Philadelphia.*	No. 46, West College
HAVARD GRIFFITH,	*Wayne.*	No. 8, West Wing
CHARLES GRIMMINGER,	*Altoona.*	No. 12, East Wing
HORACE LEROY HALL,	*Sharon.*	No. 45, West College
SPENSER TILLINGHAST HARRIS,	*Lewisburg.*	University Avenue
GEORGE WILLIAM HAWK,	*Tower City.*	No. 43, West College
F. LUTHER HEINZE,	*Ashland.*	No. 82, West College
AMMON GROSS HESS,	*Manheim.*	No. 5, East Wing
WALTER BUDD HILTON,	*Philadelphia.*	No. 14, West Wing
WILLIAM DUDLEY HINMAN,	*Monroeton.*	No. 15, East Wing
COIT ROSCOE HOECHST,	*East Berlin.*	No. 28, East Wing
THEODORE BLAND HOY,	*Montandon.*	Montandon
ELKANAH HULLEY,	*Chester.*	South Fourth Street
ESTELLA BELLE JOHNSON,	*Emlenton.*	South First Street
RUTH CUSHMAN JONES,	*Mahanoy City.*	Women's College
LULU ETHEL KLINE,	*Winfield.*	Winfield
GEORGE WASHINGTON LEACH,	*New Bethlehem.*	No. 66, West College
CHARLES AUSTIN LEMMON,	*Honeybrook.*	No. 31, East Wing

NAME.	RESIDENCE.	ROOM.
THOMAS BEEBER LOCKARD,	*Montoursville.*	No. 18, West Wing
CLARENCE EDWARD LONG,	*Shippensburg.*	South Seventh Street
MARGARET WYNONA LESHER,	*Northumberland.*	South Fifth Street
ESAU HERBERT LOOMIS,	*Wilmington, Del.*	No. 29, East Wing
LAWRENCE OSCAR MANLEY,	*Canton.*	No. 16, East Wing
GEORGE MATTIS,	*Millersburg.*	No. 67, West College
NORMAN EDWARD MCCALL,	*Falls Creek.*	No. 23, East Wing
ARTHUR EVRIL MCNINCH,	*Lewisburg.*	Lewisburg
JOHN LAMBERT MINOR,	*Kittanning.*	No. 6, East Wing
MARGARET EMMA MYERS,	*Williamsport.*	South First Street
CALVIN OBERDORF,	*Sunbury.*	Sunbury
URSULA DAWES PARMLEY,	*Mahanoy City.*	Women's College
WARREN HARPER PETTEBONE,	*Dorranceton.*	No. 10, West College
WILLIAM WESLEY RAKER,	*Trout Run.*	No. 20, West Wing
HARRY DELROY REESE,	*Lairdsville.*	No. 20, West Wing
LEO LAWRENCE ROCKWELL,	*Monroeton.*	No. 15, East Wing
MARGARET ADELIA ROWLANDS,	*Homestead.*	Women's College
EDWIN WILDE SAYLOR,	*Philadelphia.*	No. 39, West College
JACOB HARRY SCHUCH,	*Cogan Station.*	No. 18, West Wing
THOMAS WAYNE SCHULTZ,	*Pennsdale.*	South Seventh Street
F. REBECCA SHOVE,	*Wellsboro.*	Women's College

NAME.	RESIDENCE.	ROOM.
Lila Mabel Sill,	*Bradford.*	South Third Street
Frank Smigelsky,	*Mt. Carmel.*	No. 13, East Wing
Sydney Homer Smith,	*Lewisburg.*	North River Road
Harry Garfield Snavely,	*Enhaut.*	No. 9, West College
Mary Georgiana Stanton,	*Chinchilla.*	South Third Street
Paul George Stolz,	*Philadelphia.*	No. 9, West Wing
Reinhold Stolz,	*Philadelphia.*	No. 9, West Wing
John D. Strain,	*Philadelphia.*	No. 14, West Wing
Mary Sabine Weddle,	*West Newton.*	Women's College
Joseph Nelson Weddle, Jr.,	*West Newton.*	No. 49, West College
Mellie Armstrong Westcott,	*Camden, N. J.*	Women's College
Alfred Matthews Whitby,	*Pittsburg.*	No. 24, East Wing
Earle Wayne Whitney,	*Wellsboro.*	No. 24, East Wing
Frances Estelle Williams,	*Olyphant.*	Market Street
Jonathan Wolfe,	*Lewisburg.*	St. George Street
Fred Russel Zugschwert,	*Carnegie.*	No. 25, West College

SOPHOMORES, 77.

THE FRESHMAN CLASS.

CLASS OF 1908.

NAME.	RESIDENCE.	ROOM.
BLANCHE ALINE BAER,	*Bradford.*	South Fourth Street
GEORGE FOSTER BAILETS,	*Sunbury.*	Sunbury
HARRY FRANCIS BAILEY,	*Monongahela.*	No. 29, West College
CHARLES BALDWIN,	*Jenningsville.*	No. 76, West College
MARSHALL LEON BENN,	*Coudersport.*	No. 10, West College
WALTER HENRY BERTIN,	*Du Boistown.*	No. 11, West Wing
SCHUYLER DEPUEY BESSEMER,	*Knoxville.*	No. 16, West College
DAVID HOLDEN BINNS,	*Donora.*	No. 17, West Wing
ELMER KEISER BOLTON,	*Holmesburg.*	No. 24, East Wing
WINFIELD SCOTT BOOTH,	*Philadelphia.*	No. 32, West Wing
DANA MELISSA BOWER,	*Elkhart, Ind.*	South Sixth Street
JOHN BENJAMIN BOYER,	*Mandata.*	No. 19, West Wing
BENJAMIN ISAAC BRODY,	*Blossburg.*	No. 31, West Wing
CHARLES LUCAS BROMLEY,	*Reading.*	No. 27, East Wing
S. WOODS CALDWELL,	*Watsontown.*	Watsontown
JOHN LYTLE CARUTHERS,	*Irwin.*	No. 51, West College
PAUL MORROW CHAMPLIN,	*Bloomsburg.*	No. 60, West College
ALICE MAY CLARKSON,	*Williamstown.*	Women's College
CHARLES ROCKWELL COLE,	*Williamsport.*	No. 69, West College

NAME.	RESIDENCE.	ROOM.
EDWARD CARROLL CONDICT,	*Trenton, N. J.*	No. 30, East Wing
JOSEPH LEWIS COON,	*Bald Mount.*	No. 26, East Wing
JOHN WORTH CURE,	*Jermyn.*	No. 26, East Wing
CHARLES STEPHEN DANDOIS,	*Salladasburg.*	No. 28, West Wing
ROY SIGNOR DAUBERT,	*Milton.*	Milton
HARLEY DUNBAR,	*Gloversville, N. Y.*	No. 5, West Wing
WILLIAM STEWART DUNCAN,	*Duncannon.*	No. 24, West College
JOHN ROY FARR,	*Muncy.*	No. 2, West Wing
CHARLES DELANCEY FERGUSON,	*Canton.*	No. 16, East Wing
ETHEL MAE FLANAGIN,	*Tuckahoe, N. J.*	University Avenue
HOLMES AUDUBON FRANK,	*Montandon.*	Montandon
HARRY STEPHEN FURST,	*Cedar Springs.*	No. 27, West Wing
HARRY CHESTER GARDNER,	*McKeesport.*	No. 61, West College
NORMAN BUCKLAND GARDNER,	*Sunbury.*	Sunbury
GEORGE ARTHUR GEBHARDT,	*Jermyn.*	No. 7, West College
JOHN GIBNEY,	*Coatesville.*	No. 14, West College
JAMES ANDREW GROFF,	*Lewisburg.*	Lewisburg
ELIAS WILSON GROOVER,	*Lewisburg.*	Lewisburg
RALPH WOMELSDORF HALLER,	*Reading.*	No. 20, East Wing
BENJAMIN THOMAS HARRIS,	*Taylor.*	No. 36, West College
HARRY FRANKLIN HARTZELL,	*Sunbury.*	Sunbury

NAME.	RESIDENCE.	ROOM.
David Jackson Hawk,	*Tower City.*	No. 42, West College
James Fuller Hayes,	*Montoursville.*	No. 21, West Wing
Nellie Hays,	*Smithfield.*	Women's College
Harold Burrows Henderson,	*Montgomery.*	No. 4, West College
Joseph Wells Henderson,	*Montgomery.*	No. 4, West College
James Herb,	*Mt. Carmel.*	No. 13, East Wing
Chester Penn Higby,	*Philipsburg.*	No. 21, East Wing
Charles Crawford Hindman,	*Du Bois.*	No. 31, West College
Arthur Baer Hinterleiter,	*Kutztown.*	No. 20, West College
Jennie Hopwood,	*Plymouth.*	Women's College
John Clyde Hostetter,	*Williamsport.*	No. 6, West Wing
John Farl Hummer,	*Titusville.*	No. 21, East Wing
Edward Richardson Innes,	*Canton.*	No. 32, West College
Philip Musser Irey,	*Warren.*	No. 27, East Wing
Aelfric James,	*Berwick.*	No. 18, East Wing
Mae Elizabeth Jones,	*Franklin.*	Women's College
Ruth Jones,	*Parkersburg, W. Va.*	Milton
Margaret Ellen Kalp,	*Mt. Pleasant.*	Women's College
George Washington Kerschner,	*Trevorton.*	No. 30, West Wing
Horace Brown King,	*East Smethport.*	No. 5, West Wing
George Joseph Lawrence,	*Hazelton.*	No. 19, West Wing

NAME.	RESIDENCE.	ROOM.
Edwin Irland Lawshe,	*Lewisburg.*	Third and Louis Streets
Nellie Everett Leaming,	*Cape May, N. J.*	Women's College
Max Lieberman,	*Milton.*	Milton
James Lose, Jr.,	*Williamsport.*	No. 35, West College
Margaret Love,	*Muncy.*	Women's College
Richard Nathan Mackey,	*Waverly.*	No. 81, West College
Edwin Reynolds Manchester,	*Factoryville.*	No. 22, West Wing
Thomas Edwin Martin,	*Donaldson.*	No. 28, West Wing
Harvey Reuben Martz,	*Sunbury.*	Sunbury
Mary Florence Mecredy,	*Camden, N. J.*	Women's College
Robert Bruce Morris,	*Rebersburg.*	No. 32, East Wing
Charles Augustus Nicely,	*Watsontown.*	Watsontown
Chester Arthur Niple,	*Sunbury.*	Sunbury
Walter Leroy Noll,	*Green Park.*	No. 6, West Wing
Elsie Owens,	*Lewisburg.*	South Sixth Street
Margaret Weddell Pangburn,	*Elizabeth.*	Women's College
David Jesse Park,	*Montandon.*	Montandon
Casimir Perrier,	*Northampton, Mass.*	No. 15, West Wing
Luther Orville Piersol,	*Honeybrook.*	No. 28, East Wing
Frank Przybylski,	*Duryea.*	No. 26, West Wing
Joseph Edwin Ratajski,	*Duryea.*	No. 26, West Wing

NAME.	RESIDENCE.	ROOM.
Beatrice Rae Richards,	*Slatington.*	Women's College
Olive Crozer Richards,	*Slatington.*	Women's College
George A. Riggs,	*New Brighton.*	No. 22, East Wing
Edwin Leroy Royer,	*Rebersburg.*	No. 18, West College
Grace Virginia Royer,	*Lewisburg.*	Lewisburg
Barton Runyan Savidge,	*Turbotville.*	No. 8, East Wing
Marion Ellsworth Sayre,	*New Brighton.*	No. 18, East Wing
Edna Alice Seaman,	*Allentown.*	Women's College
James Francis Sheehan,	*Patton.*	No. 18, East Wing
Reuben Welty Shrum,	*Irwin.*	No. 62, West College
Joseph Riegel Shultz,	*Sunbury.*	Sunbury
William McClanathon Simington,	*Mooresburg.*	No. 80, West College
Helen Marie Smith,	*Cleveland, Ohio.*	Women's College
Wallace John Snyder,	*Elmhurst.*	No. 20, East Wing
Will Carleton Sprout,	*Picture Rocks.*	No. 15, West Wing
Anna Stage,	*Clearfield.*	Women's College
Isabella Deshler Stahl,	*Milton.*	Milton
Donald Alexander Steele,	*Washington.*	No. 25, East Wing
Robert McCurdy Steele,	*Brockwayville.*	No. 23, East Wing
John Raymond Stratton,	*Blossburg.*	South Fourth Street
Blanche Ida Sutphin,	*Hightstown, N. J.*	Women's College

NAME.	RESIDENCE.	ROOM.
RALPH LLEWELLYN THOMAS,	*Lewisburg.*	Market Street
HENRY CLYDE THOMPSON,	*Irwin.*	No. 21, West Wing
HELEN FULKERSON TIFFANY,	*Pleasant Mount.*	Women's College
CHARLES CARROLL WAGNER,	*Ottawa.*	No. 19, East Wing
WILLIAM CURTIS WAGNER,	*Watsontown.*	Watsontown
HARRY MORRISS WALTER,	*Harrisburg.*	No. 37, West College
RUDOLPH FREDERICK WARNKE,	*Mauch Chunk.*	No. 7, West Wing
DANIEL RISHEL WEBER,	*Sykesville.*	No. 25, East Wing
ADALINE WHEELER,	*Titusville.*	Women's College
MERLE B. WHITNEY,	*Buffalo, N. Y.*	No. 72, West College
JOHN J. WILLIAMS,	*Mt. Carmel.*	No. 29, West Wing
CECIL MEREDITH WINBIGLER,	*Washington, D. C.*	South Third Street
CHARLEMAGNE TOWER WOLFE,	*Lewisburg.*	North Third Street
VIOLETTA WOLFE,	*Rebersburg.*	Lewisburg
MISSOURA MAY WOLFGANG,	*Ashland.*	Women's College

FRESHMEN, 118.

PURSUING SPECIAL STUDIES.

NAME.	RESIDENCE.	ROOM.
Robert William Baker,	*Philadelphia.*	No. 73, West College
Ella Beale,	*Pelham Manor, N. Y.*	Lewisburg
Lillian Beale,	*Philadelphia.*	Lewisburg
Elbina Lavina Bender,	*Lewisburg.*	North Fifth Street
Theora May Campbell,	*Lewisburg.*	North Third Street
William L. Donehower,	*Lewisburg.*	Market Street
Stephen Gardner Duncan,	*Lewisburg.*	South Second Street
Mary Evans,	*Freeland.*	Women's College
Edwin Wingert Gundy,	*Lewisburg.*	South River Road
William Currie Hulley,	*Lewisburg.*	South Fourth Street
Girton Keller Lenhart,	*Lewisburg.*	Lewisburg
Victor B. Luchsinger,	*West Pittston.*	No. 76, West College
William Carpenter Kelly,	*Lewisburg.*	Market Street
Jennie MacLaggan,	*Lewisburg.*	South Third Street
Wilbur H. Morris,	*Mansfield.*	No. 17, East Wing
James Edward McKeever,	*Irwin.*	No. 84, West College
Paul Noftsker,	*Shippensburg.*	North Seventh Street
Lester J. Osborn,	*Philadelphia.*	No. 27, West Wing
Roger Sammons Parry,	*Higbee.*	No. 8, West College

NAME.	RESIDENCE.	ROOM.
Gilbert Somers Perez,	*New Orleans, La.*	No. 32½, East Wing
James Harry Shoemaker,	*Jersey Shore.*	Jersey Shore
Gertrude Stannert,	*Lewisburg.*	Market Street
W. Harris Waldron,	*Muncy.*	No. 3, East Wing
Lewis Albright Wanner,	*Fleetwood.*	No. 30, West College
Charles Henry Whittaker,	*Manhattan.*	Lewisburg

SPECIALS, 25.

SUMMARY.

Graduate Students	99
The Senior Class	78
The Junior Class	78
The Sophomore Class	77
The Freshman Class	118
Pursuing Select Studies	25
Total in the College	475

ADMISSION OF STUDENTS.

TO FRESHMAN STANDING.

EXAMINATIONS.

Examinations for admission to the Freshman Class will be held on Monday of Commencement week. Candidates will assemble in Bucknell Hall at 8.30 A. M.

Similar examinations are also held on the day preceding the opening of each term. In special cases candidates may be examined and admitted at other times in the year.

There must be furnished to the President by the candidate satisfactory testimonials of good moral character, and, if from another college, a certificate of honorable dismission must be presented.

The required age for admission to the Freshman Class is fifteen years.

I. GENERAL REQUIREMENTS.

Candidates for admission to any of the courses must pass examinations in the following:

1. ENGLISH.

a. Writing from dictation.

b. English Grammar.

c. Elements of Rhetoric—Invention, Style, and Punctuation.

d. A brief composition upon a subject assigned at the time of the examination. No candidate will be accepted in English whose work is notably defective in spelling, punctuation, idiom, or division into paragraphs.

e. **Reading.**—A certain number of books are set for reading. The candidate will be required to present evidence of a general knowledge of the subject-matter, and to answer simple questions on the lives of the authors. The form of examination will usually be the writing of a paragraph or two on each of several topics, to be chosen by the candidate from a considerable number—perhaps

ten or fifteen—set before him in the examination paper. The treatment of these topics is designed to test the candidate's power of clear and accurate expression, and will call for only a general knowledge of the substance of the books. In place of a part or the whole of this test, the candidate may present an exercise book, properly certified by his instructor, containing compositions or other written work done in connection with the reading of the books. In preparation for this part of the requirement, it is important that the candidate shall have been instructed in the fundamental principles of Rhetoric.

In 1904-08: Shakspere's Merchant of Venice, the Sir Roger De Coverley Papers in the Spectator, Goldsmith's Vicar of Wakefield, Irving's Goldsmith, Coleridge's Ancient Mariner, Scott's Ivanhoe and Lady of the Lake, Carlyle's Essay on Burns, Tennyson's Idylls of the King, Lowell's Vision of Sir Launfal, and George Eliot's Silas Marner.

f. **Study and Practice.**—This part of the examination presupposes the thorough study of each of the works named below. The examination will be upon subject-matter, form, and structure.

The books set for this part of the examination will be:

In 1904-08: Shakspere's Macbeth and Julius Cæsar, Milton's Lycidas, Comus, L'Allegro, and Il Penseroso, Burke's Speech on Conciliation with America, and Macaulay's Essays on Milton, Addison, and Johnson.

The candidate is encouraged to do reading parallel and subsidiary to the books mentioned above; he is recommended to commit to memory as much English poetry as possible, and to pay close attention to the essentials of Grammar.

2. Mathematics.

a. Arithmetic, including the Metric System;

b. Algebra, including Quadratic Equations. The requirements in this study include the treatment of Radicals.

c. Plane Geometry.

3. Latin.

a. Latin Grammar;

b. Latin Prose Composition;

c. Four Books of Cæsar's Commentaries.

4. History.

a. History of Greece;
b. History of Rome;
c. History of the United States.

5. Science.

a. Physiology;
b. Physics;
c. Geography—Descriptive and Political, and Physical.

6. Free-hand Drawing.

II. PARTICULAR REQUIREMENTS.

A. To enter the Classical Course, the candidate, in addition to the General Requirements, must pass examinations in the following:

1. Greek.

a. Greek Grammar;
b. Greek Prose Composition;
c. Greek Reader;
d. Four Books of Xenophon's Anabasis;
e. Three Books of Homer's Iliad.

2. Latin.

a. Seven Orations of Cicero;
b. Six Books of the Æneid;
c. Ovid.

B. To enter the Latin division of the Philosophical Course, or the Course in Jurisprudence, the candidate, in addition to the General Requirements, must pass examination in the following:

1. Latin.

a. Seven Orations of Cicero;
b. Six Books of the Æneid;
c. Ovid.

2. Any six units selected from group F.

C. To enter the Greek division of the Philosophical Course, the candidate, in addition to the General Requirements, must pass examination in the following:

1. Greek.

a. Greek Grammar;
b. Greek Prose Composition;
c. Greek Reader;
d. Four Books of Xenophon's Anabasis;
e. Three Books of Homer's Iliad.

2. Any six units selected from Group F.

D. To enter the General Science Course, the Course in Biology, or the Course in Chemistry, the candidate, in addition to the General Requirements, must pass examination in the following:

1. German or French.

The Grammar of the Language, Composition, and Translation at sight of easy prose.

2. Any nine units selected from Group F.

E. To enter the Course in Civil or in Electrical Engineering, the candidate, in addition to the General Requirements, must pass examination in the following:

1. German or French.

The Grammar of the Language, Composition, and Translation at sight of easy prose.

2. Solid Geometry.

3. Any eight units selected from Group F.

F. Candidates for admission to the Philosophical Course or to the Scientific Course must present in the case of the former, six units, in case of the latter, nine units, and candidates for the Course in Civil or Electrical Engineering, eight units, selected from the following:

English Literature, History of Modern Europe, History of England, Civics, Zoölogy, Physiography, Botany, Geology, Astronomy; Solid Geometry, Chemistry with Laboratory Practice; French (three units); German (three units).

The time requirement for a unit is five hours a week for a term of twelve weeks.

ADMISSION ON CERTIFICATE.

Graduates of Bucknell Institute, in any of the Courses will be admitted to the Sophomore year of the corresponding Course in the College.

Graduates from Bucknell Academy, in any of the Courses, will be admitted to the corresponding Courses in the College upon the Diploma of the Academy.

Graduates of Pennsylvania State Normal Schools are admitted to the General Science Course without examination.

Certificates of the **College Entrance Examination Board** are accepted for admission, and also certificates of the State Board for Examination of Candidates for registration as Students of Law.

Students who have completed a course of study in **Preparatory and High Schools** of superior standing may be admitted upon the certificate of the Principal of the school from which they come without examination upon the subjects specified in the certificate.

All students received upon certificate are regarded as in conditional standing, and will not be matriculated unless their work during the first ten weeks of the term shows that their preparation has been sufficiently thorough.

SPECIAL STUDENTS.

Students who do not desire to take a full regular course can enter and select special shorter courses with the sanction of the Faculty; but in all cases, satisfactory examinations must be passed upon the subjects required for admission to the Freshman Class of the Course from which they intend to select.

ADVANCED STANDING.

I. General Requirements. A proportionate increase of age is required for admission to advanced classes over that required for admission to Freshman standing. Other general requirements are the same as for admission to the Freshman Class.

II. Particular Requirements. Candidates for admission to advanced classes are examined both as for admission to Freshman standing and also on the studies that have been pursued by the class which they desire to enter.

MATRICULATION.

Matriculation gives membership in the College and is a condition precedent to all degrees and honors as well as to honorable dismission. No student is admitted to matriculation until he has shown by his class work during at least ten weeks and by his deportment that he is worthy of membership in the College.

HONORABLE DISMISSION.

No person will be dismissed from the College as in good standing who leaves it while under censure; and papers of dismission given to those leaving while under a condition shall either be given as of a date anterior to the term during which that condition was incurred, or shall distinctly mention the condition; nor will honorable dismission be granted to any student who has not discharged all his pecuniary obligations to the institution.

No certificate or statement as to work done in his department is granted by any professor or instructor to an undergraduate.

COURSES OF STUDY.

The Bucknell College offers four Courses of study leading to degrees in Arts, Philosophy, and Science. Each of the Courses extends through four years. For the Bachelor's degree, thirty-six courses, each of one term five hours a week must be presented, as well as the prescribed work in oral and written Expression, the former of which extends through two years of the course and the latter through four years, and also twelve lecture courses.

I. The Classical Course, leading to the degree of Bachelor of Arts, aims to furnish a liberal education in classical and modern Literature, in the Sciences and Arts. Candidates for the degree of Bachelor of Arts must present at least three courses in German and French.

II. The Philosophical Course, with Latin or Greek in each of its two divisions, aims to furnish a thorough training in advanced studies to those who desire to pursue but one of the Ancient Languages. Those who have completed the studies of the Course, including not less than four courses of German and French, are admitted to the degree of Bachelor of Philosophy. But a candidate who offers eight College courses in either of the Ancient Classical languages may receive the degree of Bachelor of Arts.

III. The General Science Course, leading to the degree of Bachelor of Science, is substantially the same as the Philosophical Course, with the substitution of additional Modern Language and Scientific Studies for Latin and Greek. Candidates for the degree of Bachelor of Science must present at least one year of German or French for admission and at least four courses of college work in German and French as requisites for graduation.

IV. The Course in Jurisprudence, leading to the Degree of Bachelor of Arts covers four years of work in Law, Political Science, Economics, Philosophy, Literature, and Mathematics. No one is graduated from this Course if his average standing for the Course is below nine.

V. The Course in Biology, leading to the Degree of Bachelor of Science in Biology, covers four years of work in Biology, Chemistry, Physics, Mathematics, and Literature. No one is admitted

to the Degree of Bachelor of Science in Biology if his average standing for the Course is below nine.

VI. The Course in Chemistry, leading to the Degree of Bachelor of Science in Chemistry covers four years of work in Chemistry, Physics, Mathematics, Biology, and Literature. No one is admitted to the Degree of Bachelor of Science in Chemistry if his average standing for the Course is below nine.

The requirements in Modern Language are the same for the Course in Jurisprudence as for the Philosophical Course; and for the Course in Biology and for that in Chemistry they are the same as for the Course in General Science.

VII. The Course in Civil Engineering, leading to the degree of Bachelor of Science in Civil Engineering, covers four years of work in Pure and Applied Mathematics, Chemistry, Technology, and English. No one is admitted to the Degree of Bachelor of Science in Civil Engineering if his average standing for the Course is below nine.

VIII. The Course in Electrical Engineering, leading to the degree of Bachelor of Science in Electrical Engineering, will be opened for Freshmen with the beginning of the school year, September 21, 1905, and will cover four years of work in Pure and Applied Mathematics, Chemistry, Physics, Electro-technics, and Language. No one will be admitted to the degree of Bachelor of Science in Electrical Engineering if his average standing for the Course is below nine.

IX. Advanced Courses in Arts and in Science have been established, leading to the degree of Master of Arts, or Master of Science.

The Master's degree is conferred only on condition that the candidate has completed a Course of Liber.l study, approved by the Faculty, sufficient in amount to constitute a fifth year of college work. Particulars may be learned by addressing the President.

CURRICULA.

I. THE CLASSICAL COURSE.

Leading to the Degree of Bachelor of Arts.

FRESHMAN YEAR.

I. Term— Geometry, Algebra, — Rhetoric, Oratory.
Cicero de Senectute and Livy,
Odyssey, Greek Prose Composition,
II. Term— Algebra, Plane Trigonometry, — Rhetoric, Oratory.
Livy,
Lysias' Orations, Greek Testament,
III. Term— Spherical Trigonometry, Analytical Geometry, — Rhetoric, Oratory.
Velleius and Pliny,
Plato's Apology, Greek Testament,

SOPHOMORE YEAR.

I. Term—Rhetoric, Horace, *Greek History*, *Chemistry*, or *Surveying*, — Linear Perspective, Oratory.

II. Term—English Literature, Demosthenes, — Astronomy, Oratory.

Elective Studies:

Roman History, *Latin*, 6, *Logic*, — *Chemistry*, *Differential Calculus*, *Physiology*.

III. Term—German, History of Art.

Elective Studies:

English Oratory,
Oratorical Delivery,
Argumentation,
Juvenal,
American Civics,
Anthropology,
Botany,
Chemistry,
Integral Calculus,
Elements of Law.

JUNIOR YEAR.

I. Term—Psychology, Greek Literature,
French, Thesis.

Elective Studies:

Æschylus and Sophocles,
Latin, 8,
English, 6 or 7,
German,
Spanish,
History, 10,
History, 16,
Economics,
Geology.
Sociology,
Physiological Psychology,
Biology,
Embryology,
Sanitary Science,
Chemistry,
Higher Analytics,
Mechanics,

II. Term—Ethics, Geology,
History of Philosophy, Thesis.

Elective Studies:

Euripides,
Latin Poets,
German,
French,
Spanish,
English Bible,
History, 1,
History, 17,
History of Art,
Money and Banking,
Physics.
Municipal Government,
Advanced Logic,
Advanced Composition,
Comparative Psychology,
Zoölogy of Invertebrates,
Animal Histology,
Human Anatomy,
Chemistry,
English, 8,
Mathematics, 13,

III. Term—Theism, History of Education,
Thesis.

ELECTIVE STUDIES:

Greek, 8,
Greek, 13,
Latin, 9,
Journalism,
German,
French,
Spanish,
English Bible,
Railroad Transportation,
Zoölogy of Vertebrates,
Cryptogamic Botany,
Bacteriology,
Neurology,
Chemistry,
Astronomy,
Physics.

SENIOR YEAR.

I. TERM—Social Ethics, Thesis.

ELECTIVE STUDIES:

Greek Testament,
Latin, 10,
Anglo-Saxon,
English, 4 or 9,
German,
Medieval History, 7,
History, 11,
International Law,
Comparative Anatomy,
Chemistry,
Geology,
Geodetic Astronomy,
Advanced Mechanics.

II. TERM—Political Ethics, Thesis.

ELECTIVE STUDIES:

Demosthenes de Corona,
Greek Testament,
Latin, 11,
Roman Life,
Chaucer,
French,
Philosophy of Mind,
History of Europe, 8,
Comparative Politics,
Public Finance,
Chemistry,
Economic Geology,
Advanced Physics.

III. TERM—Literature, Thesis.

ELECTIVE STUDIES:

Plato, Phaedo,
Greek Testament,
Latin, 12,
German,
Shakspere,
Metaphysics,
History of Europe, 9,
Private Corporations,
Constitutional Law,
Roman Law,
Chemistry,
Advanced Physics.

Seniors may take any of the Electives of the Junior Year for corresponding terms.

II. THE PHILOSOPHICAL COURSE.

Leading to the Degree of Bachelor of Philosophy.

A. Latin Division.

FRESHMAN YEAR.

I. Term— { Geometry, / Algebra, } Rhetoric, Oratory.
Cicero de Senectute and Livy,
German,

II. Term— { Algebra, / Plane Trigonometry, } Rhetoric, Oratory.
Livy,
German,

III. Term— { Spherical Trigonometry, / Analytical Geometry, } Rhetoric, Oratory.
Velleius and Pliny,
French,

SOPHOMORE YEAR.

I. Term—Rhetoric, Horace, *German*, or *Greek History*, or *Chemistry*, 1, or *Surveying*, — Linear Perspective, Oratory.

II. Term—English Literature, Astronomy. — Oratory.

Elective Studies:

Roman History, *Latin*, 6, *German*, *French*, — *Physiology*, *Chemistry*, 2, *Differential Calculus*, *Logic*.

III. Term—American Civics, — History of Art.

ELECTIVE STUDIES:

English Oratory,
Oratorical Delivery,
Juvenal,
German,
French,
Anthropology,
Elementary Law,
Botany,
Chemistry, 3,
Integral Calculus.

JUNIOR YEAR.

I. TERM—Psychology, Greek Literature,
Thesis.

ELECTIVE STUDIES:

Latin, 8,
German,
French,
Spanish,
English, 6 or 7,
History, 10,
History, 16,
Sociology,
Economics,
Physiological Psychology,
Biology,
Embryology,
Sanitary Science,
Chemistry,
Higher Analytics,
Mechanics.

II. TERM—Ethics, Geology,
History of Philosophy, Thesis.

ELECTIVE STUDIES:

Latin Poets,
English, 8,
German,
French,
Spanish,
English Bible,
History, 1,
History, 17,
Money and Banking,
Municipal Government,
Advanced Composition,
Comparative Psychology,
Zoölogy of Invertebrates,
Animal Histology,
Human Anatomy,
Chemistry,
Mathematics, 13,
Physics,
Advanced Logic.

III. TERM—Theism, History of Education,
Thesis.

ELECTIVE STUDIES:

Greek, 8,
Latin, 9,
Journalism,
German,
French,
Spanish,
English Bible,
Railroad Transportation,
Cryptogamic Botany,
Zoölogy of Vertebrates,
Bacteriology,
Neurology,
Chemistry,
Astronomy,
Physics.

SENIOR YEAR.

I. TERM—Social Ethics, Thesis.

ELECTIVE STUDIES:

Latin, 10,
German,
Anglo-Saxon,
English, 4 or 9,
Medieval History, 7,
History, 11,
International Law,
Comparative Anatomy,
Chemistry,
Geology,
Geodetic Astronomy,
Advanced Mechanics.

II. TERM—Political Ethics, Thesis.

ELECTIVE STUDIES:

Latin, 11,
Chaucer,
German,
French,
Philosophy of Mind,
History of Europe, 8,
Roman Life,
Comparative Politics,
Public Finance,
Chemistry,
Advanced Physics,
Economic Geology.

III. TERM—Literature, Thesis.

ELECTIVE STUDIES:

Latin, 12,
German,
Shakspere,
Metaphysics,
History of Europe, 9,
Comparative Politics,
Constitutional Law,
Roman Law,
Private Corporations,
Chemistry,
Advanced Physics.

Seniors may take any of the Electives of the Junior Year for corresponding terms.

THE PHILOSOPHICAL COURSE.

B. Greek Division.

FRESHMAN YEAR.

I. Term—	Geometry, Algebra, Odyssey, German,	Rhetoric, Oratory.
II. Term—	Algebra, Plane Trigonometry, Lysias' Orations, Greek Testament, German,	Rhetoric, Oratory.
III. Term—	Spherical Trigonometry, Analytical Geometry, Plato's Apology, Greek Testament, French,	Rhetoric, Oratory.

SOPHOMORE YEAR.

I. Term—	Rhetoric, Greek History, *German,* or, *Chemistry,* or, *Surveying,*	Linear Perspective, Oratory.
II. Term—	English Literature, Demosthenes,	Astronomy, Oratory.

Elective Studies:

German,	*Physiology,*
French,	*Chemistry,*
Roman History,	*Differential Calculus,*
Logic.	

III. Term—	American Civics,	History of Art.

Elective Studies:

English Oratory,	*Elements of Law,*
Oratorical Delivery,	*Botany,*
Argumentation,	*Chemistry,*
German,	*Integral Calculus,*
French,	*Anthropology.*

JUNIOR YEAR.

I. Term—Psychology, Greek Literature,
Thesis.

Elective Studies:

Æschylus and Sophocles,
German,
French,
Spanish,
English, 6 or 7,
History, 10,
History, 16,
Sociology,
Economics,
Physiological Psychology,
Biology,
Embryology,
Sanitary Science,
Chemistry,
Higher Analytics,
Mechanics.

II. Term—Ethics, Geology,
History of Philosophy, Thesis.

Elective Studies:

Euripides,
German,
French,
Spanish,
English, 8,
English Bible,
History, 1,
History, 17,
Money and Banking,
Municipal Government,
Advanced Logic,
Advanced Composition,
Comparative Psychology,
Zoölogy of Invertebrates,
Animal Histology,
Human Anatomy,
Chemistry,
Mathematics, 13,
Physics.

III. Term—Theism, History of Education,
Thesis.

Elective Studies:

Greek, 8,
Greek, 13,
Journalism,
German,
French,
Spanish,
English Bible,
Railroad Transportation,
Zoölogy of Vertebrates,
Cryptogamic Botany,
Bacteriology,
Neurology,
Chemistry,
Astronomy,
Physics.

SENIOR YEAR.

I. Term—Social Ethics, Thesis.

Elective Studies:

Greek Testament,
English, 4 or 9,
Anglo-Saxon,
German.
Medieval History, 7,
History, 11,
International Law,
Comparative Anatomy,
Chemistry,
Advanced Mechanics,
Geology,
Geodetic Astronomy.

II. Term—Political Ethics, Thesis.

Elective Studies:

Demosthenes de Corona,
Greek Testament,
Chaucer,
French,
Philosophy of Mind,
History of Europe, 8,
Roman Life,
Comparative Politics,
Public Finance,
Chemistry,
Advanced Physics,
Economic Geology.

III. Term—*Literature,* Thesis.

Elective Studies:

Plato's Phaedo,
Greek Testament,
German,
Shakspere,
Metaphysics,
History of Europe, 9,
Constitutional Law,
Roman Law,
Private Corporations,
Chemistry.

Seniors may take any of the Electives of the Junior Year for corresponding terms.

III. THE GENERAL SCIENCE COURSE.

Leading to the Degree of Bachelor of Science.

FRESHMAN YEAR.

I. Term— { Geometry, Algebra, Latin, German, II. Rhetoric, Oratory.

II. Term— { Algebra, Plane Trigonometry, Latin, German, II, } Rhetoric, Oratory.

III. Term— { Spherical Trigonometry, Analytical Geometry, Latin, French, } Rhetoric, Oratory.

SOPHOMORE YEAR.

I. Term—Rhetoric, Linear Perspective, Oratory.

Elective Studies:

Chemistry, *Greek History,*
Horace, *Surveying,*
German,

II. Term—English Literature, Astronomy, Oratory.

Elective Studies:

German, *Physiology,*
French, *Chemistry,*
Roman History, *Differential Calculus,*
Logic.

III. Term—American Civics, History of Art.

Elective Studies:

English Oratory, *French,*
Oratorical Delivery, *Elements of Law,*
Argumentation, *Anthropology,*
Juvenal, *Botany,*
German, *Chemistry,*
Integral Calculus.

JUNIOR YEAR.

I. Term—Psychology, Greek Literature, Thesis.

ELECTIVE STUDIES:

English, 6 or 7,
German,
French,
Spanish,
History, 10,
History, 16,
Sociology,
Economics,
Physiological Psychology,
Zoölogy of Vertebrates,
Embryology,
Sanitary Science,
Chemistry,
Higher Analytics,
Mechanics.

II. TERM—Ethics, Geology,
History of Philosophy, Thesis.

ELECTIVE STUDIES:

English, 8,
German,
Spanish,
French,
English Bible,
History, 1,
History, 17,
Money and Banking,
Municipal Government,
Advanced Composition,
Comparative Psychology,
Zoölogy of Vertebrates,
Animal Histology,
Human Anatomy,
Chemistry,
Mathematics, 13,
Physics.

III. TERM—Theism, History of Education,
Thesis.

ELECTIVE STUDIES:

Greek, 8,
Journalism,
German,
French,
Spanish,
English Bible,
Railroad Transportation,
Cryptogamic Botany,
Biology,
Bacteriology,
Neurology,
Chemistry,
Astronomy,
Physics.

SENIOR YEAR.

I. TERM—Social Ethics, Thesis.

ELECTIVE STUDIES:

Anglo-Saxon,
English, 4 or 9,
German,
Medieval History, 7,
History, 11,
International Law,
Comparative Anatomy,
Chemistry,
Geology,
Geodetic Astronomy.

II. Term—Political Ethics, Thesis.

Elective Studies:

French, *Roman Life,*
Chaucer, *Comparative Politics,*
Philosophy of Mind, *Public Finance,*
History of Europe, 8, *Chemistry,*
Economic Geology.

III. Term—Literature, Thesis.

Elective Studies:

German, *Constitutional Law,*
Shakspere, *Roman Law,*
Metaphysics, *Private Corporations,*
History of Europe, 9, *Chemistry.*

Seniors may take any of the Electives of the Junior Year for corresponding terms.

IV. THE COURSE IN JURISPRUDENCE.

Leading to the Degree of Bachelor of Arts.

FRESHMAN YEAR.

I. Term— { Geometry, / Algebra, } Rhetoric, Oratory.
Cicero de Senectute and Livy,
{ Odyssey, / Greek Prose Composition, or / German, }

II. Term— { Plane Trigonometry, / Algebra, } Rhetoric, Oratory.
Livy,
{ Lysias' Orations, / Greek Testament, / or German, }

III. Term—American Civics, Rhetoric,
Velleius and Pliny, Oratory.
{ Plato's Apology,
{ Greek Testament,
or French,

SOPHOMORE YEAR.

I. Term—Rhetoric, Political Science,
Horace, Oratory.

Elective Studies:

Greek History, *Surveying,*
History, 16, *Chemistry,*
German.

II. Term—English Literature, Political Science,
Logic, Oratory.

Elective Studies:

Demosthenes, *History,* 17,
Quintilian, *German,*
Roman History, *French.*

III. Term—Elements of Law, Political Science.
American Constitutional Law,

Elective Studies:

Juvenal, *Argumentation,*
English Oratory, *Oratorical Delivery,*
German or French.

JUNIOR YEAR.

I. Term—Psychology, Blackstone B. I.
Economics, Thesis.

Elective Studies:

Real Property, Blackstone B. II., *Greek Tragedy,*
Constitutional Limitations, *English Literature,*
English History, 10, *Modern Language.*
Sociology,

II. Term—Ethics, Blackstone B. III.,
Money and Banking, Thesis.

Elective Studies:

Personal Property, *English Bible,*
Municipal Government, *Greek,*
History, 11, *Latin,*
Logic, Course 2, *English Literature,*
Advanced Composition, *Modern Language.*

III. Term—Theism, Blackstone B. IV.,
Private Corporations, Thesis.

Elective Studies:

Equity, *Greek,*
English Bible, *Latin,*
Modern Language.

SENIOR YEAR.

I. Term—International Law, Social Ethics,
Thesis.

Elective Studies:

Contracts, *English Literature,*
Medieval History, 7, *Latin,*
Anglo-Saxon, *Modern Language.*

II. Term—Comparative Politics, Political Ethics,
Thesis.

Elective Studies:

Evidence, *Demosthenes de Corona,*
Public Finance, *Latin,* 11,
History of Modern Europe, 8, *Chaucer,*
Philosophy of Mind, *Modern Language.*

III. Term—Roman Law, Literature,
Thesis.

Elective Studies:

Pleading, *Shakspere,*
Railroad Transportation, *Plato's Phaedo,*
Metaphysics, *Latin,* 12,
History, 9, *Modern Language.*

Seniors may take any of the Electives of the Junior Year for corresponding terms.

V. THE COURSE IN BIOLOGY.

Leading to the Degree of Bachelor of Science in Biology.

FRESHMAN YEAR.

I. Term— { Geometry, Algebra, General Chemistry, *Latin* or *German*, II, } Rhetoric, Oratory.

II. Term— { Algebra, Trigonometry, General Chemistry, *Latin* or *German*, II, } Rhetoric, Oratory.

III. Term— { Trigonometry, Analytical Geometry, Qualitative Chemistry, *Latin* or *French*, } Rhetoric, Oratory.

SOPHOMORE YEAR.

I. Term—Biology, Quantitative Chemistry, Rhetoric, Drawing, Oratory.

II. Term—Invertebrate Zoölogy, Physiology, Drawing, Oratory.

Elective Studies:

History, *Modern Language*, *English Literature*, *Chemistry*.

III. Term—Vertebrate Zoölogy, Botany, Drawing.

Elective Studies:

Chemistry, *Anthropology*, *Civics*, *English Literature*, *Modern Language*.

JUNIOR YEAR.

I. Term—Psychology, Scientific German,
Laboratory Physiology, Thesis.
Mechanics,

II. Term—Comparative Psychology, Scientific German,
Physics, Thesis.

Elective Studies:

Sanitary Science, *Literature,*
History, *Modern Language,*
Ethics, *Metallurgy.*

III. Term—Entomology, Scientific German,
Physics, Thesis.

Elective Studies:

Toxicology, *English Literature,*
Astronomy, *Modern Language,*
Theism.

SENIOR YEAR.

I. Term—Comparative Osteology, Social Ethics,
Embryology, Thesis.

Elective Studies:

Geology, *History,*
Economics, *Modern Language,*
Chemistry.

II. Term—Histology, Political Ethics,
Thesis.

Elective Studies:

Human Anatomy, *History,*
Economic Geology, *English Bible,*
Money and Banking, *Modern Language,*
Chemistry.

III. Term—Neurology, Forestry,
Bacteriology, Thesis.

Elective Studies:

Chemistry, *Literature,*
Materia Medica, *English Bible,*
Railroad Transportation, *Modern Language.*

Seniors may take any of the Electives of the Junior Year for corresponding terms.

VI. THE COURSE IN CHEMISTRY.

Leading to the Degree of Bachelor of Science in Chemistry.

FRESHMAN YEAR.

I. TERM—Descriptive Chemistry, 1,
Geometry, Algebra, — Rhetoric, Oratory.
Latin or *German*, II,

II. TERM—Descriptive Chemistry, 2,
Algebra, Trigonometry, — Rhetoric, Oratory.
Latin or *German*, II,

III. TERM—Qualitative Chemistry,
Trigonometry, Analytical Geometry, — Rhetoric, Oratory.
Latin or *French*,

SOPHOMORE YEAR.

I. TERM—Quantitative Chemistry, Biology, Rhetoric, — Drawing, Oratory.

II. TERM—Quantitative Chemistry, Invertebrate Zoölogy, — Drawing, Oratory.

ELECTIVE STUDIES:
Physiology, *Differential Calculus*, — *English Literature*, *Modern Language*.

III. TERM—Quantitative Chemistry, Vertebrate Zoölogy, — Drawing,

ELECTIVE STUDIES:
Botany, *Integral Calculus*, — *Civics*, *Literature*, *Modern Language*.

JUNIOR YEAR.

I. TERM—Organic Analysis, Mechanics, — Scientific German, Thesis.

ELECTIVE STUDIES:

Toxicology, *History,*
Psychology, *Modern Language.*
Sociology,

II. TERM—Organic Analysis, Scientific German,
Physics, Thesis.

ELECTIVE STUDIES:

Metallurgy, *Ethics,*
Comparative Psychology, *History,*
Sanitary Science, *Modern Language.*

III. TERM—Organic Analysis, Scientific German,
Physics, Thesis.

ELECTIVE STUDIES:

Agricultural Chemistry, *Entomology,*
Astronomy, *Theism,*
Modern Language.

SENIOR YEAR.

I. TERM—Physical Chemistry, Social Ethics,
Geology, Thesis.

ELECTIVE STUDIES:

Embryology, *History,*
Economics, *Modern Language.*

II. TERM—Physical Chemistry, Political Ethics,
Thesis.

ELECTIVE STUDIES:

Economic Geology, *History,*
Histology, *Modern Language.*
Money and Banking,

III. TERM—Electro-Chemistry, Forestry.

ELECTIVE STUDIES:

Bacteriology, *Railroad Transportation,*
Constitutional Law, *Modern Language.*

Seniors may take any of the Electives of the Junior Year for corresponding terms.

VII. THE COURSE IN CIVIL ENGINEERING.

Leading to the degree of Bachelor of Science in Civil Engineering.

FRESHMAN YEAR.

I. Term—Advanced Algebra, 3b, Drawing, German, II, — Rhetoric, Oratory.

II. Term—Trigonometry, 7b, Drawing, German, II, — Rhetoric, Oratory.

III. Term—Analytical Geometry, 9b, Drawing, French, — Rhetoric, Oratory.

SOPHOMORE YEAR.

I. Term—Rhetoric, General Chemistry, Surveying, — Plotting, Oratory.

II. Term—General Chemistry, Differential Calculus, { Descriptive Geometry, Machine Design, — Precise Surveying.

III. Term—Integral Calculus, Railroad Surveying, Qualitative Chemistry, — History of Art.

JUNIOR YEAR.

I. Term—Mechanics, Strength of Materials, Roads and Pavements, — Architectural Design, Thesis.

II. Term—Physics, Masonry and Foundations, Metallurgy, — Architectural Design, Thesis.

III. Term—Physics, Astronomy, { Water Supply, Sanitary Engineering, — Geology, Thesis.

SENIOR YEAR.

I. Term—Geodetic Astronomy, Social Ethics,
Bridges and Buildings, Thesis.
Geology or
Advanced Mechanics,

II. Term—Hydraulics and Hydraulic Motors, Political Ethics,
Bridges and Buildings, Thesis.
Economic Geology, or
Advanced Physics,

III. Term— { Mine Surveying, Contracts and Specifications,
City Surveying, Thesis.
Bridges and Buildings,
Railroad Transportation, or
Advanced Physics,

LECTURE COURSES.

The following Courses of Lectures have been established:

1. A Course of Lectures is given yearly by Wayland Hoyt, D. D., LL. D.

2. A Course of Lectures on Practical Ethics is given yearly by Benaiah L. Whitman, LL. D.

DEPARTMENTS OF INSTRUCTION.

The method of instruction in the College is varied according to the nature of the subject. Each Professor has his individual mode of imparting knowledge, and this, in the result, is advantageous to the learner. In general, the aim is to discuss each subject as far as possible as the subject-matter requires, yet all branches are presented practically, comparatively, and historically, with the view of leading the student to the apprehension of the subject as a whole and in its organic relations. The range and character of the instruction can be gathered from the following account of the different departments.

I. DEPARTMENT OF PHILOSOPHY.

JOHN HOWARD HARRIS, LL. D.,
PROFESSOR OF PSYCHOLOGY AND ETHICS

CALVIN AURAND HARE, A. M.,
PROFESSOR OF CHRISTIAN EVIDENCES AND LOGIC.

THOMAS ADDIS EDWARDS, A. M.,
PROFESSOR OF PEDAGOGY.

The studies in this department embrace Psychology, Philosophy, Ethics, Theism, and Education.

1. **Psychology, Descriptive and Explanatory.** Required Course. Juniors. First term, five hours.

2. **Physiological and Experimental Psychology.** Open to Seniors and Juniors. First term, five hours.—PROFESSOR DAVIS.

3. **Lotze, Grundzuege der Psychologie.** Honor for Seniors and Juniors.

4. **Philosophy of Mind.** Elective to Seniors and Juniors. Second term, five hours.

5. **Logic, Deductive and Inductive.** Second term, five hours. —PROFESSOR HARE.

6. **Logical Theories.** Honor Course, Seniors and Juniors. Second term, one hour. Prerequisite Course 1.—PROFESSOR HARE.

7. **Scientific Method.** Seniors and Juniors. Second term, five hours.—PROFESSOR HARE.

8. **Argumentation.** Baker's *Principles of Argumentation.* Briefs, forensics and oral discussion. Third term. (Rhetoric 3.) PROFESSOR PHILLIPS.

9. **History of Philosophy.** Lectures. Required of Juniors. Second term, two hours.

10. **Greek Philosophy** (Greek, 10). Elective to Seniors and Juniors.—PROFESSOR HAMBLIN.

11. **Roman Philosophy** (Latin, 15). Elective to Seniors and Juniors.—PROFESSOR ROCKWOOD.

12. **Modern Philosophy,** Weber. Honor Course, Seniors and Juniors. Third term.

13. **Ethics.** Required of Juniors. Second term, four hours.

14. **Philosophy of Religion.** Required of Juniors. Third term, five hours.

15. **Evidences of Christianity.** Elective to Seniors.—PROFESSOR HARE.

EDUCATION.

16. **History of Education.** A general sketch of educational Theory and Practice in Ancient and Modern times. Lectures. Required of Juniors. Third term, one hour.—PROFESSOR EDWARDS.

17. **Psychology of Education.** Based on Harris' Psychologic Foundations of Education. Elective to Seniors and Juniors. Second term.—PROFESSOR EDWARDS.

18. **Comparative and Child Psychology.** Text-book, reports, and discussions. Full course. Elective to Seniors and Juniors. Second term, five hours.—PROFESSOR DAVIS.

19. **Philosophy of Education.** Based on Rosenkranz' Philosophy of Education. Elective to Juniors and Seniors. Third term.—PROFESSOR EDWARDS.

20. **School Administration.** High School organization, function and management; discussion of methods; survey of College Entrance Requirements. First term.—PROFESSOR EDWARDS.

21. **Teachers' Course in American History.** Methods of teaching History with special reference to the work of secondary schools. Second term, two hours.—PROFESSOR COLESTOCK.

22. **Teachers' Course in Greek.** The Anabasis and Iliad are used as text. The Preparatory work is reviewed, and suggestions made regarding methods of teachings. Some informal lectures are also given regarding the first year's work in Greek. First term, Seniors and Juniors.—PROFESSOR HAMBLIN.

23. **Teachers' Course in Latin.** Special topics in grammar, with practical exercises in Cæsar, Cicero, Vergil. Third term, open to Seniors and Juniors.—PROFESSOR ROCKWOOD.

24. **Teachers' Course in English.** Designed to familiarize the student with the authors required for entrance to college.—PROFESSOR PERRINE.

25. **Teachers' Course in Mathematics.** Mathematics as developed in history and as used in education. (a.) Arithmetic: Its culture value, utility, present status in the schools; reforms in arithmetical teaching. (b.) Algebra: Its growth during the last three centuries, typical parts (ethical value). (c.) Geometry: Its basis, historical position, methods, recent geometry.—PROFESSOR BARTOL.

CERTIFICATES.

The courses in education and methods of teaching, including Child Psychology, the History, the Psychology, and the Philosophy of Education, are helpful to those intending to teach. Students who take not less than eight of these courses will be entitled to a certificate for the work done in addition to the diploma of the Course in which they graduate.

REGISTER OF TEACHERS.

In order to aid Boards of Control in securing suitable teachers, there is kept a registry of graduates of Bucknell University who may wish to engage in teaching. Alumni and friends of the College will render a service if they will inform the President of vacancies.

II. DEPARTMENT OF LAW.

HAROLD MURRAY MCCLURE, A. M.,
PRESIDENT JUDGE OF THE SEVENTEENTH JUDICIAL DISTRICT,
LECTURER ON CONTRACTS AND PRACTICE.

FREDERIC EVANS BOWER, A. M.,
ATTORNEY-AT-LAW,
LECTURER ON EVIDENCE AND EQUITY.

ALBERT WILLIAM JOHNSON, A. M.,
ATTORNEY-AT-LAW,
LECTURER ON REAL AND PERSONAL PROPERTY.

The Bucknell College of Liberal Arts offers in its courses for the degrees in Arts and Science a number of subjects specially bearing upon the study of law. Students prepared for college and having taken one year's work in liberal studies, will be admitted to the studies in Law. The subjects offered are those usually given in the first year of the best law schools. The instruction is by text-book, lecture, and study of cases. The texts of "Leading Cases" have been placed in the library for the use of students. A certificate for the work done is given by the department, in addition to the Diploma of the College. But this certificate is not given for any legal subject in which the student's standing is below nine; nor to any student whose general average is below nine. The law studies are counted towards the degree in Liberal Arts, to the amount of one year's work. Opportunity is given for the *Review* of the *Latin, History* and *Literature* required in the Preliminary Examination for registration as students at Law in Pennsylvania.

1. **Elementary Law.** Robinson's Elementary Law. Third term. Sophomore year.—PROFESSOR COLESTOCK.

2. **Blackstone's Commentaries.** One hour, Junior year, three terms. B. I, III, IV.—PROFESSOR COLESTOCK.

3. **Real Property.** Blackstone B. II, and Select Cases, Lectures. First term, Junior year.—MR. JOHNSON.

4. **Personal Property.** Text-book, Select Cases, Lectures. Second term, Junior year.—MR. JOHNSON.

5. **Contracts.** Text-book, Select Cases, Lectures. First term, Senior year.—JUDGE MCCLURE.

6. **Equity.** Text-book, Select Cases, Lectures. Third term, Junior year.—MR. BOWER.

7. **Evidence.** Text-book, Select Cases, Lectures. Second term, Senior year.—MR. BOWER.

8. **Pleading.** Stephen, Leading Cases, Lectures. Third term, Senior year.—JUDGE MCCLURE.

9. **Principles of International Law.** Fall term, Seniors and Juniors.—PROFESSOR HEIM.

10. **Roman Law.** Third term, Seniors and Juniors.—PROFESSOR ROCKWOOD.

11. **American Civics.** A study of the frame of Federal and State Government.—PROFESSOR COLESTOCK.

12. **The Constitution of Pennsylvania.** The work reviews the principal decisions of the Supreme Court interpreting the provisions of the Constitution.—PROFESSOR HEIM.

13. **American Constitutional Law.** Third term, Seniors and Juniors.—PROFESSOR HAMBLIN.

14. **Constitutional Limitations.** Cooley's Constitutional Limitations is used as a text, and cases are studied.—PROFESSOR HEIM.

15. **Comparative Constitutional Law.** Second term, Seniors and Juniors. A comparison of the Constitutions of England, France, Germany, and the United States.—PROFESSOR HEIM.

16. **Moot courts** are held in which an attorney-at-law and a student sit as judges, and students, deputed to represent the respective sides, present their arguments. The presiding student writes the opinion of the court.

III. DEPARTMENT OF ECONOMIC AND POLITICAL SCIENCE.

EPHRAIM M. HEIM, PH. D., PROFESSOR.

1. **Economics, I.** General course, devoted chiefly to problems of Production and Distribution; first term, five hours. Seniors and Juniors.

2. **Economics, II.** Money and Banking. Second term; five hours. Seniors and Juniors. Prerequisite, Course 1.

3. **Economics, III.** Public Finance. Financial Administration, Taxation and Public Debts. Second term; five hours. Alternating with Course 11. Prerequisite, Course 1.

4. **Private Corporations.** Corporate problems, economic and legal. Corporation Finance. Third term; five hours.

5. **Railroad Transportation.** Relation of Railways to Investors, to the Public, and to the Law. Theory of Rates. Methods of State Control. Third term; five hours.

6. **American Civics** and **Parliamentary Law.** A study of the American Frame of Federal and State Government; and of Parliamentary rules and usages.—PROFESSOR COLESTOCK.

7. **American Constitutional Law.** Cooley's Elements of Constitutional Law. A study of the law of the Federal Constitution. Juniors and Seniors. Third term; five hours.—PROFESSOR HAMBLIN.

8. **The Pennsylvania Constitution.** Growth and Development of the State Constitution, together with a study of leading cases interpreting existing constitutional provisions. Third term; five hours.

9. **Constitutional Limitations.** The Constitutional Law of the American Commonwealth. The sphere of Civil Rights in relation to the exercise of governmental power through the criminal law, the police power, the taxing power, and the power of eminent domain. First term; five hours.

10. **Comparative Constitutional Law.** A comparative study of the Constitutions of England, France, Germany, Switzerland, and the United States. Second term; five hours.

11. **Municipal Government.** Organization of City Government. Problems of Administration, Municipal Functions. Relation to the State. Second term; five hours. Seniors and Juniors.

12. **International Law.** First term; five hours. Seniors and Juniors.

13. **Political Science and Public Administration.** One hour a week, extending through the Sophomore year in the Course in Jurisprudence. An examination of fundamental concepts and prin-

ciples, together with a survey of the literature, of Political Science and Economics. Introductory to subsequent courses in law and government.

Honor Courses:

14. **Economics.** First term. One of the following:

(a) Economic History; (b) Socialism; (c) Theories of Distribution.

15. **Administrative Law.** Second term.

16. **Political Science.** Third term. One of the following:

(a) Bluntschli, Allgemeines Staatsrecht.

(b) Gneist, Das englische Verwaltungsrecht.

IV. DEPARTMENT OF SOCIOLOGY.

WILLIAM EMMET MARTIN, A. M., PROFESSOR

1. **Anthropology, Descriptive and Physical.** Elective to Sophomores. Third term, five hours.

2. **Ethnology.** Honor Course, Seniors and Juniors. First term, one hour. Prerequisite Course 4.

3. **History of Culture.** Honor Course, Seniors and Juniors, alternating with Course 5. First term, one hour.

4. **Sociology, Principles and Theory.** Elective to Seniors and Juniors. First term, five hours.

5. **Charities and Reform.** Honor Course, Seniors and Juniors. Second term, one hour. Prerequisite Course 7.

6. **Municipal Sociology.** Seniors and Juniors. Second term, five hours.

7. **Esthetics, Principles and Problems.** Honor Course, Seniors. First term, one hour.

8. **History of Art, Architecture, Painting, and Sculpture.** Honor Course, Seniors and Juniors. Second term, one hour.

V. DEPARTMENT OF HISTORY.

HENRY THOMAS COLESTOCK, PH. D., PROFESSOR.

History is approached as the gradually unfolding life-story of the race, in which certain movements of unusual importance have arisen, resulting from the conflict between ideas embodied in institutions and those seeking to be embodied. The courses are planned with a view of introducing the student not only to the principal movements resulting from this conflict between ideas, but also to the process by which ideas become embodied in social institutions.

1. **Oriental History.** Ancient civilization along the Nile and the Euphrates. Second term, five hours.

2. **Hebrew History and Literature.** Second term, five hours. —PROFESSOR PHILLIPS.

3. **New Testament History and Literature.** Third term, five hours.—PROFESSOR PHILLIPS.

4. **Greek Political and Constitutional History.** First term, five hours.—PROFESSOR HAMBLIN.

5. **Roman History.** Second term, five hours.—PROFESSOR ROCKWOOD.

6. **Roman Private Life.** Second term, five hours.—PROFESSOR BALLENTINE.

7. **Medieval Europe.** The training of a new race into whose hands was committed the heritage of the past. First term, five hours.

8. **Modern Europe to 1789.** Revolutions in ideas, creeds, interests. Second term, five hours.

9. **Modern Europe since 1789.** Napoleonic era. Unification. Growth in national consciousness. Third term, five hours.

10. **History of England.** Social and Political development of the English people from the earliest times. First term, five hours.

11. **Constitutional History of England.** With especial reference to the growth and development of the representative system. First term, five hours. To alternate with Course 10.

12. **Blackstone, Book I.** First term. Junior year, one hour.

13. **Blackstone, Book II,** with cases. First term, five hours.—Mr. Johnson.

14. **Blackstone, Book III.** Second term. Junior year, one hour.

15. **Blackstone, Book IV.** Third term. Junior year, one hour.

(Courses 12, 13, 14, 15 are required in Jurisprudence.)

16. **American Colonial History.** The transplanting of English ideas and their growth into American institutions. First term, five hours.

17. **American Constitutional History.** Development of the federal system. Issues involving the operation and interpretation of the Constitution. Second term, five hours.

18. **American Civics.** The operations of government under American conditions. Third term, five hours.

19. **Elements of Law.** Definitions and principles. Third term, five hours.

20. **Teachers' Course in American History.** With especial reference to method of teaching in secondary schools. Second term, two hours.

21. **The Renaissance in Italy.** First term, Seniors, one hour. Honor Course.

22. **Social England.** Second term, Seniors and Juniors, one hour. Honor Course.

23. **The Modern Orient.** Third term, Seniors and Juniors, one hour. Honor Course.

24. **New France in America.** Seniors and Juniors, one hour. Honor Course.

VI. THE GREEK LANGUAGE AND LITERATURE.

Thomas Franklin Hamblin, A. M., professor.

There are four terms of required work in Greek in the Classical Course, and five in the Greek Philosophical Course; while Greek may be taken as an elective during the entire Junior and Senior years. Besides the elective Courses a number of Honor Courses

are offered. In the Elective Course a year of poetry alternates with a year of prose. A course of lectures on the Greek poets is given to the Seniors, with collateral reading. A course of New Testament Greek, designed especially for candidates for the ministry and extending through the Senior year is given by Professor Phillips.

Courses: 1-5, required; 6-15, elective.

1. **Homer.** Odyssey, Books 5-8. Review of verb forms and syntax of verbs. Epic forms and styles. Word lists. Metre. First term, Freshman year.

2. **Lysias.** Six orations. Inflection and syntax of nouns. Prose composition. Attic oratory. Translation at sight and hearing. Second term, Freshman year.

3. **Plato.** Apology and selections. Special topics in Greek Syntax. Philosophy and influence of Socrates. The Sophists. Extracts from the Memorabilia at sight. Third term, Freshman year.

4. **Greek Political and Constitutional History.** Bury's History of Greece is used as a text-book. The class is also required to do collateral reading on important epochs. First term, Sophomore year.

5. **Demosthenes.** Olynthiacs and Philippics. History and Politics of the Macedonian period. Style of Demosthenes. Second term, Sophomore year.

6. **Eschylus and Sophocles,** Prometheus Bound and Œdipus Tyrannus. The drama, theatre, and metres. First term, Seniors and Juniors, in alternate years.

7. **Euripides and Aristophanes,** Medea and The Clouds. Greek Comedy. Religious influence of the poets. Influence of the Classical on the Modern Drama. Second term, Seniors and Juniors, in alternate years.

8. **Greek Literature in English.** A course especially designed for students in the Philosophical or Scientific Courses, that they may become acquainted with some of the Greek masterpieces. The best translations will be studied and explained, and informal lectures will be given on various phases of Greek Literature. Third term, Senior and Junior years.

9. **Demosthenes.** *De Corona.* The oratory of Demosthenes, from a literary and political point of view. Æschines against Ctesi-

phon at sight. Second term, Seniors and Juniors, alternating with 6.

10. **Plato.** The Phaedo. Greek Philosophy. The influence of Plato. Third term, Seniors and Juniors; alternating with 7.

11. **New Testament Greek.** The Gospel according to Luke. Hellenistic Greek. Second and third terms, Freshman year; one hour a week.

12-14. **New Testament Greek.** Translation of the synoptic Gospels; interpretation; Burton's *Moods and Tenses;* characteristics of Hellenistic Greek. Designed for students desiring a linguistic and historical foundation for the interpretation of the New Testament. Three terms. Elective to Seniors.—PROFESSOR PHILLIPS.

15. **Teachers' Course in Greek.** The Anabasis and Iliad are used as text-books. Thus the Preparatory work may be reviewed. and suggestions received regarding methods of teaching. Some informal lectures are also given regarding the first year's work in Greek. First term, Seniors and Juniors.

HONOR COURSES IN GREEK.

16. **Xenophon.** The Symposium and Œconomicus. Sophomores and Freshmen. Winter terms in alternate years.

17. **Homer and Lucian.** Selections from each in alternate years. Sophomores and Freshmen, third term.

18. **Xenophon and Eschines.** The Memorabilia and the oration against Ctesiphon, in alternate years. Seniors and Juniors, first term.

19. **Sophocles and the Lyric Poets.** Antigone and selections from the Lyric Poets in alternate years. Seniors and Juniors, second term.

VII. THE LATIN LANGUAGE AND LITERATURE.

FRANK ERNEST ROCKWOOD, LL. D., PROFESSOR.
FLOYD GEORGE BALLENTINE, PH. D., ASSISTANT PROFESSOR.

There are four terms of required work in Latin and ten of elective in the Classical and Latin Philosophical Courses. Honor courses, subject to change from time to time, are also offered.

A. Candidates for the Degree of Bachelor of Science take Latin daily during the Freshman year. This course is intended for students who have passed only in the General Requirements in Latin, for admission. The work consists in the study of *Cicero* (*selected speeches*) and *Vergil,* or *Livy,* and *Prose Composition.*

B. The following courses are designed for students in the Classical and Philosophical Courses, but are also open as electives to students in the Science Course who may be qualified to take them:

Courses: 1-4, required; 5-14, elective.

1. **Cicero.** *De Senectute.* Livy: Book I. Review of special topics in Latin Grammar. Oral and written exercises in Prose Composition, based upon the text. Translation at sight and at hearing. First term, Freshman year, two divisions.

2. **Livy:** Books XXI and XXII. Latin Prose Composition based upon the text. Roman history: Special chapters in Liddell. Second term, Freshman year, two divisions.

3. **Velleius:** Roman History. Pliny. Selections from the Epistles. Translation at sight. Latin Prose Composition, based upon the text. Third term, Freshman year, two divisions.

4. **Horace:** Selections from the Odes, Satires, and Epistles. Prosody; Historical Outlines of the Latin Language and Literature; Wilkins' Primer; Lectures. First term, Sophomore year, two divisions.

5. **Roman History:** The work is based on Allen's Rise and Fall of Rome. Mommsen, Bury, and Gibbon are used for supplementary reading. Second term, Sophomore year.

6. **Quintilian:** Books X and XII. Roman Literature. Second term; open to those who have taken Course 4; alternating with 11.

7. **Juvenal:** Selected Satires. Third term; open to those who have taken Course 4.

8. **Plautus and Terence:** Selected Plays. First term; open to Seniors and Juniors; alternating with 10.

9. **Latin Inscriptions:** Allen's Remnants of Early Latin; Egbert's Manual. Third term; open to Seniors and Juniors; alternating with 12.

10. **Tacitus:** Annals. Translation at sight. Roman History. First term; open to Seniors and Juniors; alternating with 8.

11. **Latin Poets:** Crowell's Selections. Roman Literature. Second term; open to those who have taken Course 4; alternating with 6.

12. **Teachers' Course in Latin:** Special topics in grammar with practical exercises in Cæsar, Cicero, Vergil. Third term; open to Seniors and Juniors; alternating with 9.

13. **Roman Private Life:** Lectures; required reading; one short report, involving elementary investigation. Second term; open to Seniors and Juniors.

14. **Roman Law:** Morey's Roman Law; Sandars' Institutes of Justinian; lectures and reports. Third term; open to Seniors; required in the Course in Jurisprudence.

HONOR COURSES IN LATIN.

15. **Roman Philosophy:** Cicero and Seneca.

16. **Christian Writers:** Tertullian. Latin Hymns.

17. **Classical Philology:** Introductory course.

VIII. THE ENGLISH LANGUAGE AND LITERATURE.

ENOCH PERRINE, LITT. D., PROFESSOR.

1. **English Literature,** introductory course. Designed to give a general knowledge of the history of English Literature from the Elizabethan to the Victorian periods, inclusive. Required, second term, Sophomore.

2. **Anglo-Saxon:** Old English Language and Literature, with special elective in Beowulf. Elective for those who have taken Course 1 and the required work in German.

3. **Chaucer:** Middle English Language and Literature, with readings in Langland and Gower, and in Lounsbury's The English Language. Elective for those who have taken Course 1 and the required work in French.

4. **The English Drama:** its development from the earliest times to Shakspere. Elective for those who have taken Courses 1 and 7, and alternating with Course 9.

5. **Shakspere:** His mind and art. Critical study of **A Midsummer Night's Dream, Hamlet, and Tempest.** Senior elective.

6. **The Georgian Period of English Literature.** Elective for those who have taken Course 1, and alternating with Course 7.

7. **English Literature from 1830.** Elective for those who have taken Course 1, and alternating with Course 6.

8. **American Literature,** with special reference to the national period. Elective for those who have taken Course 1.

9. **Principles of Literary Criticism.** Elective for those who have taken Courses 1, 7 and 8, and alternating with Course 4.

10. **Periods of English Literature.** Special "honor" work is given in different periods of English Literature to those who have passed with credit in Courses 1, 4, 7, and 8.

11. **English Oratory,** a study of the oration as a literary form. Elective for those who have taken Course 1 and the required Courses in Rhetoric.

12. **Journalism,** a study and practice of the various forms illustrated in the metropolitan "dailies," together with proof-reading, study of the functions of editors, and readings in the history of great American journalists and journals. Elective for those who have taken Course 1 and the required Courses in Rhetoric.

13. **Foreign Literature in English.** Lectures on some of the world's masterpieces are given to the Seniors on Monday mornings during the third term. One hour.

14. **Teachers' Course in English.** Designed to familiarize the student with those authors, both in the way of theory and practice, that are required for entrance to college. Two hours.

15. Le Public et les Hommes de Lettres en Angleterre, 1660-1744; Beljame; or Ecrivains Modernes de L'Angleterre, Montegut.

16. **Shakspere:** Fünf Vorlesungen von Bernhard ten Brink.

IX. RHETORIC AND ORATORY.

Llewellyn Phillips, A. M., professor.
Bromley Smith, A. M., instructor in rhetoric and oratory.
William Eugene De Melt, assistant in rhetoric.

A.—COURSES IN RHETORIC AND COMPOSITION.

1. **Rhetoric and English Composition:** Introductory course. Themes, weekly recitations, and consultations. Three terms; one hour. Required of Freshmen.

2. **English Composition.** Daily and fortnightly themes, recitations and consultations. First term; five hours. Required of Sophomores.

3. **Argumentation:** Baker's *Principles of Argumentation.* Briefs, forensics, and oral discussion. Third term. Open to students who have passed in 1 and 2. Required of all students who enter the Junior Debates.

4. **English Composition:** *Advanced Course.* Wendell's *English Composition.* Daily and fortnightly themes, recitations, and consultations. Second term; five hours. Open to Seniors and Juniors.

5. **Theses.** Every member of the Junior and the Senior Class writes a thesis. The Junior theses contain not less than two thousand words, the Senior theses not less than three thousand words. The subjects are chosen in conjunction with the heads of the departments to which the subjects belong. Upon these theses are based the Junior Exhibition orations and the Commencement orations. The subjects of the theses are presented to the Professor of Rhetoric before October 22, and an outline of each thesis is presented to the Professor of Rhetoric at the close of the first term. The completed theses are handed in before March 1. They are examined first by the heads of the departments to which the subjects belong and afterwards by the Professor of Rhetoric. The subjects of the Senior theses are published in the annual Catalogue.

HONOR COURSES.

6. **Structure and Style.** Themes. Second and third terms. Open to students who have attained an average grade of nine in Courses 1 and 2, or students who have passed in Courses 1, 2, and 3.

7. **Forms of Discourse.** Themes. Second and third terms.

Open to students who have attained an average grade of nine in Courses 1, 2, and 4.

8. **The Theory of Rhetoric.** A study of the laws of thought.

9. **Movements of Thought in the Nineteenth Century.** Methods of investigation; theses. Open to Seniors.

B.—COURSES IN ORATORY.

The aim is to train the student to speak effectively in the pulpit or upon the platform or at the bar. All instruction is based upon the principle that impression precedes and determines expression. Each student receives individual attention during the first half of the course in elocution, during the latter half in oratory. Special attention is given to debate. Each student is urged to take an active part in the work of the Literary Societies.

The ultimate object of the *physical culture* is to secure a good presence and the ability on the part of the voice and body to interpret correctly the conceptions of the mind.

FRESHMEN.

1. **Physical Culture.** Exercises for securing correct position, and harmony of movements and attitudes; exercises for breath control and vocal culture and for grace in gesture.

2. **Public Speaking.** Study of the fundamentals of public speaking; delivery of short extracts from masterpieces of oratory, aiming to secure directness, earnestness, and dignity of address. Required, first and second terms, one hour.

3. **Public Speaking.** Delivery of complete orations illustrating and applying the principles studied in the first and second terms. A prize is offered to the young man and one to the young woman of the Freshman Class who excels in the delivery of these orations. Required, third term.

SOPHOMORES.

4. **Public Speaking.** Close analysis and study of the details of public speaking; study of the various styles of delivery and of the different forms of discourse. Delivery of selected extracts from masterpiece illustrating each. Extemporaneous speaking. Reviews and continuation of the physical culture of Course 1. Required, first term, one hour.

5. **Public Speaking.** Study of Narration. Description and argumentation. Delivery of selections illustrating each. Preparation and delivery of original narrations and descriptions. Extemporaneous speaking. Required, second term, one hour.

6. **Public Speaking.** Delivery of complete argumentative selections. Preparation for and participation in debate. A prize is awarded to the young man of the Sophomore Class who shall excel in the delivery of an assigned selection in argumentation. A prize is awarded to the young woman of the Sophomore Class who shall excel in the delivery of an assigned selection in narration. Required, third term.

7. **Oratorical Delivery.** This course includes respiration, cultivation of the voice, pronunciation, articulation, and the principles of vocal and gestural expression. Theory is secondary to practice. The student receives daily drill in the different modes of expression. Text-books: Lessons in Vocal Expression, Curry; Principles of Vocal Expression and Literary Interpretation, Chamberlain and Clark. Reference is made to Curry's Imagination and Dramatic Instinct; Curry's Province of Expression, Fénélon's Pulpit Eloquence, Brookings and Ringwald's Briefs for Debate. Elective. Third term, five hours. Open also to Juniors and Seniors.

8. **Interpretative Reading.** Senior and Junior elective. Second term, five hours.

JUNIORS.

9. **Prize Contest.** A prize contest in Oratory is held in the third term by Juniors, appointed on the ground of superiority in composition and elocution as shown during the preceding terms of the college course.

10. **Prize and Honor Debate.** During the year there are three debates by Juniors, the last of which is a prize and honor debate.

SENIORS.

11. **Honors in Debating.** During the year an elective course in debating is offered to Seniors. The last debate is public.

12. **Prize in Oratory.** A prize is offered for the best oration of those delivered by the Senior orators at Commencement, regard being had equally to subject-matter, style, and delivery.

X. DEPARTMENT OF MODERN LANGUAGES.

GUIDO CARL LEO RIEMER, A. M., PROFESSOR.
ELYSEE AVIRAGNET, A. M., PROFESSOR OF THE ROMANCE LANGUAGES.
PAUL EMIL WEITHAASE, A. M., ASSISTANT PROFESSOR OF GERMAN.
WILLIAM CULLEN KEOUGH, A. B., INSTRUCTOR IN FRENCH.

A. GERMAN.

1a. **Elèmentary Course.** Grammar; German Prose; practice in writing German. Required Course, Freshmen of the Philosophical and Scientific Courses. First and Second terms, five hours. Texts: Bierwirth, Elements of German Grammar; Bronson, German Prose and Poetry.

1b. **Elementary Course.** Grammar; German Prose; practice in writing German. Required Course, Sophomores of the Classical Course. Third term, five hours. Texts: Bierwirth, Elements of German Grammar; Whitney, Introductory German Reader.

2. **German Prose.** Grammar and practice in writing German. Elective Course, for those who have taken Course 1a or 1b. First term, five hours. Texts: Harris, German Composition; Thomas, Practical German Grammar; Hauff, Die Karawane; Riehl, Der Fluch der Schönheit, Das Spielmannskind, Der Stumme Ratsherr, and Die Burg Neideck.

3. **German Prose and Poetry.** Grammar and practice in writing German. Elective Course for those who have taken Course 2. Second term, five hours. Texts: Harris, German Composition; Thomas, Practical German Grammar; Freytag, Die Journalisten; Hauff, Lichtenstein; Heine, Harzreise; Sudermann, Katzensteg; German Ballads and Lyrics.

4. **Introduction to the Works of Lessing, Goethe, and Schiller.** Practice in writing German. Elective Course, for those who have taken Course 3. Third term, five hours. Texts: Von Jagemann, Prose Composition and Syntax; Lessing, Minna von Barnhelm and Emilia Galotti; Goethe, Egmont; Schiller, Wilhelm Tell and Die Jungfrau von Orleans; German Ballads and Lyrics.

5. **Schiller.** Practice in writing German and Lectures. Elective Course, for those who have taken Course 4. First term, five hours. Texts: Von Jagemann, Prose Composition and Syntax;

Thirty Years' War, Wallenstein, Maria Stuart, and Die Braut von Messina.

6. **Goethe.** Practice in writing German and Lectures. Elective Course, for those who have taken Course 4. Second term, five hours. Texts: Götz von Berlichingen, Iphigenie, Tasso, Hermann and Dorothea, and Dichtung und Wahrheit.

7. **Goethe.** Practice in writing German and Lectures. Elective Course, for those who have taken Course 4. Third term, five hours. Texts: Faust, Parts I and II.

Courses 5, 6, and 7 are conducted mainly in German.

8. **Lotze.** Grundzüge der Psychologie. (Philosophy 3.)

9. **Shakspere: Funf Vorlosungen.** (English 16.)

10. **German Political Science.** (Economics 16.)

11. **German Biological Science.** (Biology 21.)

12. **German Chemical Science.** (Chemistry 16.)

B. FRENCH.

1a. **Elementary Course.** Grammar; French Prose; practice in writing French. Required Course, Freshmen of the Philosophical and Scientific Courses. Third term, five hours. Texts: Grandgent, Short French Grammar; Super, French Reader.

1b. **Elementary Course.** Grammar; French Prose; practice in writing French. Required Course, Juniors of the Classical Course. First term, five hours. Texts: Grandgent, Short French Grammar; Laboulaye, Contes bleus; George Sand, la Mare au Diable.

2. **French Prose.** Grammar and practice in writing French. Elective Course, for those who have taken Course 1a or 1b. Second term, five hours. Texts: Grandgent, Short French Grammar and French Composition; Balzac, le Curé de Tours; Bonnechose, Bertrand du Guesclin; Lamartine, la Révolution francaise; Lesage, Gil Blas; Michelet, Extraits de l'histoire de France.

3. **French Prose and Poetry.** Grammar and practice in writing French. Elective Course, for those who have taken Course 2. Third term, five hours. Texts: Grandgent, French Composition; Balzac, Eugénie Grandet; Coppé, le Pater; Dumas père, les Trois Mousquetaires; George Sand, la Famille de Germandre; Taine, les Origines de la France contemporaine.

4. **Continuation of Course 3.** Elective Course, for those who have taken Course 3. First term, five hours. Texts: Corneille, le Cid; Victor Hugo, Selections from les Misérables, and Hernani; Molière, le Bourgeois gentilhomme and l'Avare; Alfred de Musset, Poésie et Comédie; Sainte-Beuve, Selected Essays.

5. **Corneille, Moliere, and Racine.** Practice in writing French and Lectures. Elective Course, for those who have taken Course 3. Second term, five hours. Texts: Corneille, Horace and Polyeucte; Molière, les Femmes savantes, les Précieuses ridicules, and Tartuffe; Racine, Andromaque, Athalie, and Esther.

6. **A View of French Literature.** Reading; practice in writing French; lectures. Elective Course, for those who have taken Course 3. Third term, five hours. Texts: La Fontaine, Fables choisies; Molière, le Misanthrope; Warren, French Prose of the XVII Century; Descartes, Pascal, la Rochefoucauld, Bossuet; Selections from Voltaire's Prose; Canfield, French Lyrics; Béranger, Alfred de Musset, Alfred de Vigny, Lamartine, Th. Gautier, Victor Hugo, Leconte de Lisle, Verlaine, Sully-Prudhomme; Augier, le Fils de Giboyer; Zola, la Débâcle; Warren, Primer of French Literature.

7. **Conversational French.** An honor course in Conversational French is given by Dr. Aviragnet to students who have made sufficient progress in the language.

8. **French Prose Composition.** In addition to the exercises in French Prose Composition required in all the courses, Dr. Aviragnet gives annually a special course.

9. **Publique et les Hommes de Lettres,** or **Ecrivains Modernes de l'Angleterre.** (English 15.)

C. SPANISH.

DR. AVIRAGNET.

1. **Elementary Spanish.** Grammar. Conversation. Translation of easy prose. Elective course, for Seniors and Juniors. First term, five hours.

2 and 3. **Spanish Prose.** Translation, Composition, Conversation. Elective Course, for Seniors and Juniors. Second and third terms, five hours.

XI. DEPARTMENT OF MATHEMATICS.

WILLIAM CYRUS BARTOL, PH. D., PROFESSOR.
JOSEPH MEIXELL WOLFE, A. M., ASSISTANT PROFESSOR.
CHARLES ARTHUR LINDEMANN, A. M., ASSISTANT PROFESSOR.
FRANK MORTON SIMPSON, SC. M., ASSISTANT PROFESSOR.
CLIFFORD VERNON WILLIAMSON, ASSISTANT.

1. **Solid Geometry.** The course includes the geometry of solids with plane surfaces, the cone, the cylinder, the sphere, and the spherical triangle. Freshman year, first term, five hours for eight weeks.

2. **Algebra Course a.** The topics are ratio, proportion, variation, progressions, theory and development of functions, logarithms, differentiation of algebraic functions, indeterminate equations. Freshman year, first and second terms, five hours for ten weeks.

3. **Algebra Course b.** The course embraces all the topics of course *a*, but it is extended further and includes the solution of numerical higher equations. Freshman year, first term, Engineering Courses.

4. **Advanced Algebra.** Half course in series and the theory of equations; open to Freshmen of the Arts and Science courses. Prerequisite to Course 12. Second term, two hours.

5. **Determinants and Advanced Algebra.** Honor course, open to Freshmen of the Engineering course and to Sophomores of the Arts and Science courses. Alternating with course 37. Second term, two hours.

6. **Trigonometry, Course a.** The course includes plane trigonometry with application to problems in mensuration and surveying, and spherical trigonometry with some applications to problems in astronomy. Freshman year, second and third terms, five hours for ten weeks.

7. **Trigonometry, Course b.** Similar to Course *a*, but extended to meet fully the needs of Engineering students. Freshman year, second term.

8. **Analytical Geometry, Course a.** The student is taken through the elementary properties of the right line, the circle, and the conic sections. The course is intended to give a clear conception of the methods of Cartesian analysis rather than an extensive knowl-

edge of its results. Freshman year, third term, five hours for nine weeks.

9. **Analytical Geometry, Course b.** Similar to course *a,* but extended to include the topic of higher plane curves. Freshman year, third term, Engineering course.

10. **Analytical Geometry, Course c.** Supplementary to course *a,* given to Sophomores of the Arts and Science courses; required of all who take up the Calculus. First term, two hours.

11. **Higher Analytical Geometry.** The course covers the geometry of three dimensions, surfaces of revolution and higher plane curves; alternating with course 14. Junior year, second term, five hours.

12. **Differential Calculus.** The course includes higher derivatives and functions of several variables, infinite series, maxima and minima. Prerequisite, courses 4 and 10. Sophomore year, second term, five hours.

13. **Integral Calculus.** The course includes the simpler methods of integration, rectification and quadrature of plane curves, surfaces and solids of revolution, and applications to problems in Physics and Mechanics. Sophomore year, third term, five hours.

14. **Differential Equations.** An elementary course with mechanical applications; alternating with course 11. Junior year, second term, five hours.

15. **Descriptive Astronomy.** The aim of the course is to present in concise form a synopsis of astronomical knowledge to date. Lectures. Sophomore year, Arts and Science courses, second term, one hour.

16. **General Astronomy.** The subject is taught by text-book, with illustrations in the observatory. The students have free use of the ten-inch equatorial telescope. Third term, five hours.

17. **Geodetic Astronomy.** The course includes the use of the astronomer's transit and micrometer; observations for Time; conversion of Time; Latitude, Longitude, Azimuth and their geodetic determination; figure and dimensions of the Earth; use of the American Ephemeris; practice in the Observatory. Prerequisites, a course in Surveying and one in the Elements of Astronomy. Juniors and Seniors, first term, five hours.

18. **Plane Surveying.** *Land Surveying,* laying-out, subdividing, and finding the area of given tracts of land. *Topographical*

Surveying, by chain and compass, by plane table, and by transit instrument and stadia rods. Sophomore year, first term. Daily.

19. **Railroad Surveying.** Instruction is given in the theory of simple and compound curves, wyes, switches, and turn-outs. A corps is organized, which makes a preliminary survey of a cross-country railroad. The topography of this is taken and plotted; elevation of centre line taken; grade determined; degree of curves fixed, and paper location made. Centre line of permanent survey is now located; slope stake set; earthwork calculated; specifications drawn up, and estimates made of the line surveyed. Sophomore year, Civil Engineering, third term. Daily.

20. **Mine Surveying.** Problems in Mine Surveying, such as plumbing the shaft, locating bore holes, lining up chambers, driving tunnels, are worked out in class and with the instruments. Plotting of notes forms a part of the work, and a trip of inspection is made to some nearby workings. Senior year, Civil Engineering, third term, daily for six weeks.

21. **City Surveying.** Town sites are located and plotted; permanent reference points and bench marks established; sewers located and calculated; curb and property lines determined. Senior year, Civil Engineering, third term, daily for six weeks.

22. **Descriptive Geometry.** A study of the representation of lines, plane surfaces, solids, and sections of solids; the projection of points, lines, and surfaces; practical problems. Engineering Courses, Sophomore year, second term, five hours.

23. **Linear Perspective.** A course of twelve lectures designed to familiarize the student with the principles of perspective, and to give him an insight into their manifold applications. Arts and Science courses, Sophomore year, first term, one hour.

24. **Courses in Drawing.** Extending through the Freshman year of the course in Civil and Electrical Engineering, and required of all candidates for the degree of Bachelor of Science in Civil or Electrical Engineering. Ten hours a week.

(1.) **Linear and Freehand.** An elementary course in drawing to give the student facility in the use of instruments; Geometrical problems; cross-sectioning; shading; isometric drawing; sketching from models.

(2.) **Lettering.** The form and proportion of standard letters; structural details; methods of spacing; laying out titles.

(3.) **Architectural Drawing.** Plans, elevations, and perspective drawings; copying of standards.

(4.) **Pen and Color Topography.** Topographical signs; methods of hill shading; surface forms by contours and in color and pencil; enlarging and reducing maps, rendering in water colors, sepia, and charcoal.

(5.) **Tracing and Blue Printing.** Photographic methods of the Architect and Engineer.

25. **Precise Surveying.** Given in connection with the courses in surveying. Sophomores, second term, one hour.

26. **Machine Design.** Problems in drawing and designing. Second term, Sophomore Engineering, one hour.

27. **Architectural Design.** The design of brick and stone structures, including the preparation of plans and specifications. Junior Engineering, one hour, first and second terms.

28. **Architectural Design, 2.** This course will take up the theory and practice of modern framed structures, and the fire proofing of the same. First and second terms, Senior Engineering, one hour.

29-31. **General Physics.** (Three terms.) These courses in Physics are required in the Engineering Courses and are elective in the other Courses. Instruction is given in the Laboratory supplemented by recitations and lectures.

(a) Laboratory. The Laboratory instruction extends throughout the year and includes experiments illustrating the general laws in all branches of physics. The experiments are largely quantitative and use is made of instruments of precision. The work is entirely individual. The student is required to take notes in the Laboratory, elaborating them outside and presenting for criticism from time to time.

(b) Recitations. Recitations supplement the laboratory work. The study of a text covering the theoretical and mathematical side of the subject is required.

(c) Lectures. Frequent lectures are given in which use is made of the lecture-room apparatus. All important phenomena are illustrated and experimental demonstrations of the principal laws are presented.

29. **Mechanics and Heat.** First term, Junior year.

30. **Electricity and Magnetism.** Second term, Junior year.

31. **Acoustics and Optics.** Third term, Junior year.

32-34. **Advanced Physics.** The course extends throughout the year and assumes that the student has completed Course 29-31 or the equivalent. Instruction is given chiefly in the Laboratory. Students are instructed in the use of instruments of precision employed in Mechanics, Heat, Light, Electricity, and Magnetism. The work in the Laboratory is supplemented by written reports in which both general and theoretical results obtained are discussed. These reports afford the basis for criticism of the work. The work must be pursued in such order as the appointments of the Laboratory may require.

The subject of Electricity and Magnetism will occupy about two-thirds of the year. For this work the laboratory is supplied with instruments of precision, such as the Thomson Reflecting Astatic Galvanometer, Helmholtz, D'Arsonval, and Ballistic Galvanometers, Standard Cells, Condensers, and Resistance, Weston instruments, etc. A 50-kilowatt, Thomson-Ryan Dynamo, 125 volts, at the University lighting plant and a 2-kilowatt 110-volt machine are available for study. The equipment is being increased as the need requires.

(1.) **Mechanics.** Problems of engineering will receive special attention. The work will include experiments in statics, principle of movements, calibration of capillary tubes, testing levels, etc.

(2.) **Heat.** Calorimetry and Thermo-dynamics of the steam engine will form the basis of the work.

(3.) **Light.** The student will be instructed in the use of the spectrometer, spectroscope, interferometer, and the photometer.

(4.) **Electricity and Magnetism.**

(a) Measurement of Current, Electro-motive Force, and Resistance. Determination of constants of galvanometers.

(b) Study of Primary and Secondary Batteries and Standard Cells.

(c) Tests, and calibration of commercial instruments.

(d) Experimental study of dynamo machines, including tests of efficiency.

(e) The Transmission of Intelligence.

35. **Strength of Materials.** Tensile, compressive, shearing, and cross-bending stresses are considered; methods of testing materials of construction are outlined, and problems in the design of

wooden and steel beams, girders, footings, beams, roof trusses, etc., are worked out. First term. Junior Civil Engineering, five hours.

36. **Masonry and Foundations.** The materials of masonry construction and their preparation and use receive attention; this is followed by a study of foundations—ordinary, pile, and under water. Under masonry structures are treated: masonry dams, retaining walls, bridge abutments and piers, culverts, and masonry arches. Second term, Junior Civil Engineering, five hours.

37-41. **Bridges and Buildings.** The first term is devoted to Graphical Statics, problems being worked out daily in the drafting room. The work of the second term consists in the determination of stresses in framed structures by means of graphic and algebraic methods. The third term is spent in the calculation and designing of some framed structure and the preparation of the drawings for the same. Senior Civil Engineering, three terms, daily.

42. **Roads and Pavements.** The economic location and design of streets and pavements are considered along with the questions of street drainage and foundations for roads and pavements. Comparisons are made between earth, gravel, broken stone, shell, plank, and burned clay roads, and also between asphalt, brick, stone block, and wooden block pavements. Equestrian roads, race tracks, bicycle paths, and sidewalks receive attention. First term, Junior Civil Engineering, daily.

43. **Hydraulics and Hydraulic Motors.** This course includes the theory of Hydrostatics and Hydraulics, the flow of water over weirs, through orifices and tubes, and in pipes, canals, and rivers; the measurement of water-power; water wheels and turbines. Senior Civil Engineering, second term, daily.

44. **Water Supply and Sanitary Engineering.** Under the head of the collection and storage of water are taken up quantity of water required, rainfall, flow of streams, storage and evaporation of water, supplying capacity of water sheds, springs, and wells. The flow of water in streams, pipes, and channels is discussed, as also the practical construction of water works. A study is made of the various methods of sewage disposal. Third term, Junior Engineering, five hours.

45. **Contracts.** In this course will be given the principles of Common Law as applied to contracts. Third term, Senior Engineering, one hour.

XII. DEPARTMENT OF CHEMISTRY.

WILLIAM GUNDY OWENS, A. M., PROFESSOR.
GEORGE STEPHEN TILLEY, A. M., INSTRUCTOR.
JOHN CLYDE HOSTETTER, ASSISTANT.

The Courses in Chemistry are designed to give a comprehensive view of the field covered by chemical investigation and to train the student in the various methods of chemical research. The courses as a whole are offered to those who expect to teach chemistry or enter the testing or industrial laboratory. As chemistry is at the foundation of the natural sciences, the first few courses are essential to the study of science and medicine, and are important for general culture.

1. **Descriptive Chemistry.** Text-book, lectures, and laboratory experiments. The properties, preparation, history, and uses of the non-metallic elements and their compounds. First term, five hours.

2. **Descriptive Chemistry.** Text-books, lectures, and laboratory experiments. The properties, preparation, history, and uses of the metallic elements and their compounds. Second term, five hours.

3. **Qualitative Analysis.** In the first part of the term chemical reactions are studied in the laboratory, class-room, and text-book, after which fifty compounds, mixtures, and industrial products are determined. Each student reports individually and is questioned on the methods of determination. Twelve hours laboratory work a week required. Third term, prerequisite courses 1 and 2.

4, 5, 6. **Quantitative Analysis.** This course, extending through the year, aims to acquaint the student with the methods of analysis used in different chemical determinations.

(1.) In the first term, Gravimetric methods are studied and pure inorganic preparations made.

(2.) In the second term, Volumetric methods are studied.

(3.) In the third term, Fire and Gas analysis are taken up.

Chemical Theories are studied throughout the year. Laboratory work, nine hours a week. Prerequisites, courses 1, 2, and 3.

7. **Organic Chemistry.** Prerequisites, courses 1, 2, and 3. First term, three hours a week. Laboratory work, six to eight hours a week.

Hydrocarbons of the methane, olefine, and acetylene series and their most important derivatives are studied. In the laboratory, after preliminary exercises to train in technique, each student makes a number of pure organic substances belonging to the compounds studied.

8. **Organic Chemistry** (Continued). Second term, three hours a week. Prerequisite, course 7. Aromatic hydrocarbons and derivatives are studied. In the laboratory a number of substances are made, and practice in ultimate organic analysis is given. From six to eight hours a week should be devoted to laboratory work, at times convenient to the student.

9. **Organic Chemistry** (Continued). Third term, three hours a week. Laboratory work, six to eight hours a week. Polycyclic and heterocyclic compounds related both to oliphatic and aromatic compounds are studied. In the laboratory, syntheses and analyses of comparative difficulty are performed, and some study of organic reactions is made.

10. **Physical Chemistry.** First term, three hours a week. Laboratory work, six hours a week. Prerequisite, courses 1, 2, 3, 4, 5, 6, mechanics and physics, and differential calculus.

A study is made, during the two terms of the course, of gases and the gas laws; of the properties of liquids and solids so far as of interest to the chemist; of solutions; balanced actions; the phase rule, and particular cases of homogeneous and heterogeneous equilibrium.

11. **Physical Chemistry.** Second term, three hours a week. Course 10 is continued and the theoretical part of electro-chemistry begun. Laboratory work, six hours a week. The laboratory work during the two terms will include the more important physico-chemical measurements, such as determination of heats of reaction, of specific gravities, of molecular weights, of velocities of reaction, and others.

12. **Electro-chemistry.** Third term, three hours a week. Laboratory work, six hours a week. Prerequisite, physical chemistry.

The theoretical consideration of electro-chemistry is continued, and technical subjects are studied, including electrolytic analysis of metals and some electrosynthetic methods.

The laboratory work will be designed to illustrate the subjects studied and give practice in electro-chemical technique.

13. **Toxicology and Urinalysis.** Poisons and their separation from organic matter are studied during the first part of the term. During the second part analysis of urine and of food adulteration is studied. Laboratory work, ten hours a week. Prerequisites, courses 1, 2, and 3.

14. **Metallurgy.** The manufacture and properties of iron and steel are studied and the influence of carbon, silicon, phosphorus, sulphur, and other elements. Laboratory work consists in determining these elements and studying the structure under the microscope. Laboratory work, eight hours a week. Prerequisites, courses 1, 2, and 3.

15. **Agricultural Chemistry.** The chemistry of plants and fertilizers are studied. Fertilizer and food analysis is practiced in the laboratory six hours a week. This course covers the legal requirements for teachers of Pennsylvania high schools. Prerequisites, courses 1, 2, and 3.

16. **German Chemical Literature.** One hour a week, throughout the year. Prerequisite, at least two terms of German, and courses 1, 2, and 3 in chemistry.

Selections from standard German text-books and periodicals are read, and some study is made of the derivation and formation of scientific words.

HONOR COURSES.

17. **Physical Chemistry.** Mathematical topics.

18. **Organic Research.**

19. **History of Chemistry.**

XIII. DEPARTMENT OF ORGANIC SCIENCE.

GEORGE G. GROFF, M. D., PH. D., LL. D., PROFESSOR.
NELSON FITHIAN DAVIS, SC. D., PROFESSOR OF BIOLOGY.
WILLIS EDGAR MANEVAL, PH. M., INSTRUCTOR.

It is the constant aim in this department to teach how to interpret nature. The student is guided in his investigations by lectures and laboratory manuals.

Courses 1, 3, 4, 5, 6, 14, 15, 16, 17, 19, and 20 are given by Professor Groff.

Courses 2, 7, 8, 9, 10, 11, 12, 13, and 18 are given by Professor Davis.

1. **Animal Physiology.** Recitations, lectures, and laboratory work. Second term, Sophomore year.

2. **Experimental Physiology.** Lectures and experiments to illustrate the functions of the organs of the animal body. First term.

3. **Neurology.** Recitations, lectures, and laboratory work. Third term. Prerequisite, course 1 and General Chemistry.

4. **Sanitary Science.** Lectures, second term, one hour.

5. **Human Osteology and Comparative Anatomy.** Recitations and dissections. First term.

6. **Human Anatomy.** Recitations and dissections. Second term.

7. **Normal Histology.** Recitations and lectures, and laboratory work. Second term.

8. **Embryology.** Recitations, lectures, and laboratory work. First term.

9. **Biology.** Recitations and dissections. First term.

10. **Invertebrate Zoology.** Recitations and dissections. Second term.

11. **Vertebrate Zoology.** Recitations and dissections. Third term.

12. **Organic Evolution.** Honor course. Second term, Junior year, two hours.

13. **Heredity.** Honor course. Third term, two hours.

14. **Phænogamic Botany.** Recitations, lectures, and field work. Third term.

15. **Cryptogamic Botany.** Recitations, lectures, and field work. Third term.

16. **Plant Physiology.** Honor course.

17. **Elements of Forestry.** Lectures.

18. **Bacteriology.** Recitations, lectures, and laboratory work. Third term.

19. **Mineralogy and Geology.** Recitations, lectures, and laboratory work. First term.

20. **Economic Geology.** Recitations, lectures, and laboratory work. Second term.

21. **German Biological Literature.** Junior year, one hour.

MEDICAL PREPARATORY DEPARTMENT.

William Leiser, M. D.,
Lecturer on Diagnosis.

Weber L. Gerhart, M. D.,
Lecturer on Anatomy.

Charles Alexander Gundy, M. D.,
Lecturer on Surgery.

George G. Groff, M. D., LL. D.,
Professor of Anatomy and Physiology.

Nelson Fithian Davis, SC. D.,
Professor of Biology.

William Gundy Owens, A. M.,
Professor of Chemistry.

For the present Bucknell University does not offer a full course of medical study nor confer degrees in medicine; but offers the preparatory studies and most of the non-clinical studies of the first two years of the courses required in the Medical Colleges. The student can select from the medical subjects offered at Bucknell University such as will be required for advanced standing in the Medical College in which he may wish to complete his studies for the degree in medicine, and if his standing in such subjects averages not less than nine, he will receive from the Department of Medicine in Bucknell University a certificate of proficiency in those subjects and in such other subjects related to medical studies as he may have completed at Bucknell. These subjects are open only to students in the college of Liberal Arts, and the Certificate of proficiency is given to students only upon graduation, and in addition to the Diploma of the College of Liberal Arts.

1. **Animal Physiology.** Recitations, lectures, and laboratory work. Second term. Experimental Physiology. Third term.

2. **Experimental Physiology.** Recitations, lectures, and experiments.

3. **Neurology.** Recitations, lectures, and laboratory work.

4. **Physiological Psychology.** Recitations, lectures, and experiments.

5. **Pathology.** Recitations, lectures, and autopsies.

6. **Sanitary Science.** Recitations and lectures.

7. **Human Osteology and Comparative Anatomy.** Recitations and dissection.

8a. **Human Anatomy.** Recitations and dissection of human body.

8b. **Human Anatomy.** Recitations and dissection of human body.

9. **Normal Histology.** Recitations, lectures, and laboratory work.

10. **Embryology.** Recitations, lectures, and laboratory work.

11. **Biology.** Recitations and dissections.

12. **Invertebrate Zoology.** Recitations and dissections.

13. **Vertebrate Zoology.** Recitations and dissections.

14. **Phænogamic Botany.** Recitations, lectures, and field work.

15. **Cryptogamic Botany.** Recitations, lectures, and field work.

16. **Bacteriology.** Recitations, lectures, and laboratory work.

17. **Materia Medica.** Chemical preparations.

18. **Descriptive Chemistry.** Recitations and laboratory work.

19. **Analytical Chemistry.** Recitations and laboratory work.

20. **Quantitative Analysis.** Recitations and laboratory work.

21. **Toxicological and Urine Analysis.**

22. **Physiological Chemistry.** This course includes such chemical determinations as are of special importance to medical students.

THE BIOLOGICAL LABORATORY.

The Biological Laboratory is equipped with apparatus for carrying on work in the Organic Sciences. A large room has been fitted up especially for Microscopic work with equipments for fifteen stu-

dents. Each student has a separate desk containing a microscope and the necessary reagents. The Laboratory is also supplied with collecting and bacteriological apparatus, with books of reference, and other appliances necessary for carrying on Biological research. Those taking Microscopy have the use of microtomes, incubators, reagents, etc. New apparatus is added as occasion demands. The work in Zoölogy is illustrated by marine and fresh-water forms, skeletons, and mounted specimens. In Comparative Anatomy and Osteology the work is illustrated by skeletons representing different types of vertebrates. Physiology is illustrated with human skeletons, a life-size French manikin, prepared tissue, and numerous charts. Material for Human Anatomy is received from the State Anatomical Board in Philadelphia, and each student has the opportunity to dissect the whole human body. The work in Materia Medica is illustrated by specimens of crude drugs. The student in Histology and Embryology has a good supply of paraffin and collodion blocks. The work is illustrated with microscopic slides, alcoholic material, and French wax models. Each student is provided with dissecting instruments.

THE MUSEUM.

Curator, Professor Nelson Fithian Davis, sc. d.

The College possesses a good collection of illustrative material in Botany, Mineralogy, Geology, Zoölogy, Materia Medica, and Histology. The specimens are distributed under these classifications and those of Archæology, as follows:

Botany	1,600
Mineralogy	3,000
Geology	2,000
Zoölogy	4,500
Archæology	525
Histology	1,200
Materia Medica	350
Total	13,175

Additions to the Museum will always be thankfully received, especially of objects which can be used in laboratory work.

Among these may be mentioned: Zoölogical specimens, especially marine and fresh-water forms of life; insects; skeletons of

vertebrate animals, birds, and mammals; botanical specimens; crystallized minerals; American and especially Pennsylvania rocks.

Contributions for the Museum have been received during the past year from George S. Tilley, F. B. Harding, P. G. Hess, Dr. Geo. G. Groff, J. Sanford Davis, Calvin H. Elliott, Granville Malcom, M. D., W. E. Maneval, G. W. Cheesman, and B. W. Scott.

THE LIBRARIES AND READING ROOMS.

Librarian: Professor William E. Martin, A. M.
Assistants: Thomas B. Powell and Frances E. Williams.

The College Library. The general library contains about twenty-six thousand volumes, besides many thousand pamphlets. The reading room is connected with the library, and offers facilities for reading, studying, and writing. During term-time both are open forenoon, afternoon, and evening of each day, Sundays and holidays excepted, and both are maintained without extra charge to students. Students in all departments have free access to the shelves, and may draw two books at one time and retain them for two weeks, with the privilege of one renewal, if desired.

For greater convenience of instructors and students, collections of special technical books are also kept in the Laboratories of the Physical and the Organic Sciences, and in the Astronomical Observatory.

The library is regarded as a working laboratory for all departments of instruction, students being constantly cited to it in classroom work. In this way, while answering the purpose of general culture, it supplements in great measure the monographic treatment of text-book study, and the student is trained under competent guidance to become an investigator. The resulting practical acquaintance with books and bibliography proves a valuable part of liberal education.

The Carnegie building for the accommodation of the library will be in use at the opening of the school year, September 21st, 1905.

By aid of the Card Catalogue and Pool's Index to Periodicals, all the resources of the library on any given subject are at once available.

Gifts to the library of money and of books will be thankfully acknowledged by the librarian.

Valued contributions in books, pamphlets, and periodicals have

been made by the following during the year ending November 1st, 1904:

Advocate of Peace, American Economist, Prof. E. Aviragnet, MUS. DOC., Baker & Taylor Co., *Baptist Home Mission Monthly, Baptist Missionary Magazine, Brown Alumni Monthly,* D. B. Brunner, A. M., *Bulletin of Bibliography,* Carnegie Libraries, Allegheny and Pittsburg, Prof. R. C. H. Catterall, PH. D., George W. Cheesman, *Chicago Seminary Quarterly,* Chickering & Sons, Civil Service Commission, Prof. H. T. Colestock, PH. D., *Columbia University Quarterly,* Commission on International Exchange, W. C. Conant, Hon. John B. Cooke, A. M., Hon. William J. Coxey, A. M., Prof. N. F. Davis, SC. D., *Florida Times-Union,* Hon. B. K. Focht, *Forest Leaves,* S. F. Forgeus, D. D., Registrar Wm. C. Gretzinger, A. M., Rev. John T. Griffith, D. D., Prof. George G. Groff, M. D., LL. D., Prof. T. F. Hamblin, A. M., Prof. C. A. Hare, A. M., President John H. Harris, LL. D., *Hartford Seminary Record,* Prof. E. M. Heim, PH. D., *Helping Hand,* Hon. David Jayne Hill, LL. D., Principal Elkanah Hulley, A. M., Interstate Commerce Commission, Jefferson Physical Laboratory of Harvard University, Jewish Publication Society, Prof. E. H. Johnson, D. D., LL. D., George C. Kelly, ESQ., *L'Agenda,* 1904, Labor Statistics Bureaus, Illinois, Maryland, Michigan, New York, Ohio, Lake Mohonk Conference, *Lewisburg Chronicle, Lewisburg Journal,* C. A. Lindemann, A. M., Craige Lippincott, ESQ., Longmans, Green & Co., The Macmillan Company, Hon. Thad. M. Mahon, M. C., Prof. W. E. Martin, A. M., Meadville Theological School, *New Jersey Baptist Bulletin,* New Jersey State Library, Newark Public Library, *New Voice,* Niles Co., Oil City Derrick Publication Co., Prof. W. G. Owens, A. M., *Pennsylvania State College Experiment Station Bulletins,* Pennsylvania State College Library, Pennsylvania State Library, Prof. E. Perrine, LITT. D., *Philadelphia Evening Telegraph,* Philadelphia Free Library, Prof. L. Phillips, A. M., David Wallace Robinson, *Rochester Baptist Monthly,* Prof. F. E. Rockwood, LL. D., Richard Rowland, ESQ., The Siamese Royal Commission to the Louisiana Purchase Exposition, The Smithsonian Institution, *Sound Currency,* United States Bureaus and Departments: Agriculture, Census, Commerce and Labor, Education, Ethnology, Geological Survey, Interior, Library of Congress, Mint, National Museum, Navy, Patent Office, State, Superintendent of Documents, Treasury, War; Universities: Chicago, Colorado, Columbia, Harvard, Pennsylvania, Princeton, Wesleyan; *University Record,* Volta Bureau, P. E. Weithaase, A. M., Joseph M. Wolfe, A. M., Mary M. Wolfe, A. M., M. D., *Yale Alumni Weekly,* and many Colleges, Schools, and Universities.

GENERAL COLLEGE ORDERS.

ATTENDANCE.

Only under exceptional circumstances will excuses be granted to leave College during term time. In such cases the examination on the studies gone over by the class, during a student's absence, will be especially searching, and a high degree of attainment will be required. When a student is absent more than one fourth of the term for any reason, he is required to stand private examination in addition to the examination required of the class. One who is absent during the entire term must almost necessarily lose his standing in his class. The work of the term begins on the day of opening, and recitations are expected at the first hour appointed for the meeting of the classes. The work continues uninterruptedly, with the exception of holidays marked in the Calendar, until the last day of the term.

STANDING.

Each instructor records, in numbers ranging from 0 to 10, the character of the recitation of every student reciting to him, and notes also any delinquency in conduct and attendance. The weekly summary of these markings is recorded in permanent books, and constitutes the basis for determining the standing of the student during his connection with the institution. Unexcused absences from recitations are counted as zero in making up the weekly averages. *Excused* absences have half the effect in lowering a student's standing as unexcused absences, but a student may, at the option of the professor, do supplementary work to obviate the effect upon his standing of excused absences. At the close of each term an average of these marks is made out, and a report of the scholarship, attendance, and conduct of each student is transmitted to his parent or guardian by the President. No student is advanced from one class to another whose average in any study is less than 7; nor is any student recommended to the Board of Trustees for graduation in the general courses if his average standing during either his Freshman or Sophomore year is below 8; or if in his Junior year it is below 8.5; or if in his Senior year it is below 9. The passing grade for grad-

uate students is 9. No one will be recommended for graduation in the Course in Jurisprudence, Biology, Chemistry, and in Civil Engineering, nor be granted a certificate in the Law or Medical studies, if his average is below 9.

Conditioned students are not recommended to the Board of Trustees for promotion. Students conditioned on entrance must discharge such conditions within the first year thereafter.

If the student has failed in the studies of a term, he will not be permitted to enter upon the studies of a subsequent term until he has passed in the subjects in which he failed, unless a postponement of examination to a definite time is granted by the Faculty.

Appointments in the Graduating Class are made according to the aggregate standing of each member during his entire course. But in assigning these parts the Faculty takes into account the deportment of the student, as well as marks for recitations. The minimum average for an Oration of the First Class is fixed at 9, and for an Oration of the Second Class at 8.

Students who attain an average of 9.4 or more for their entire course are graduated *summa cum laude;* students who attain an average of 9.2 or more are graduated *magna cum laude;* those who attain an average of 9 or more are graduated *cum laude.*

EXAMINATIONS.

The dates of the examinations are given in the Calendar. In case a student fails to be present at the examination of his class, for any justifiable reason, his examination will be held at such time as the Faculty may appoint, but in no case is an examination granted a student in advance of the time appointed for the examination of the class.

Unless for very good reasons to the contrary, a student who is granted a special examination will be required to pay a fee therefor.

PUBLIC WORSHIP.

The College duties of each day are opened with religious services in Bucknell Hall, which all the students of the College are required to attend.

Attendance upon public worship in some church in town on Sunday morning is required. Students must attend the religious services held on Thanksgiving Day.

On the day of Prayer for Colleges, religious services are held

in the forenoon, when a sermon is preached by the President, or by some one at his request. All the students are required to attend. In the afternoon and evening services are held in Bucknell Hall, attendance upon which is advised, but not required.

GOVERNMENT.

It is assumed that all who enter upon the courses of study in the College do so for the purpose of acquiring an education, not only of the intellect, but also of character. The Laws of the College, enacted by the Board of Trustees, are as few and simple as the proper regulation of a community of young men will permit. These are printed, and a copy is placed in the hands of every student at the beginning of each year. These laws must be observed, not only in their letter, but in their spirit. The atmosphere of the institution is not that of arbitrary restraint, but of reasonable conformity to reasonable laws. The College does not wish to place its stamp or bestow its honors upon any one who is not willing to deport himself as a gentleman. Each student is distinctly placed upon his manhood, and if he abuses his privileges, after reasonable caution, he must withdraw from the institution.

PRESIDENT'S OFFICE HOURS.

The President of the University is in his office, in the Main College building, every Tuesday, from 9.30 A. M. to 12 noon, to confer with students who may desire advice or assistance. Students are encouraged to communicate frankly with the President upon any subject in which he may be of help to them.

OFFICE HOURS FOR THE COLLEGE WOMEN.

The Dean of the Women's Department will meet College women who may desire advice or assistance from him.

VOLUNTARY SOCIETIES.

Euepia; Theta Alpha. These are the two Literary Societies of the College for men. They hold meetings for Orations, Essays, and Debates. Each Society has a convenient hall, and by an arrange-

ment of the Faculty will always have a nearly equal number of members.

The Zeta Literary Society is composed of young women admitted to any of the courses in the College.

The Young Men's Christian Association is formed of students from College. It receives religious periodicals and corresponds with kindred societies. A hall has been appropriated to the Society, and has been suitably furnished for religious meetings.

The Students' Publication Association is an organization which has in charge the issuing of the *Bucknell Mirror.* This periodical appears monthly during the collegiate year. The same Association publishes the *Commencement News* daily during Commencement week.

Another association of students publishes, weekly, during the school year the *Orange and Blue.*

The Athletic Association of the College has been formed to encourage and regulate athletic sports. Considerable liberty is allowed the Association in carrying out its purpose. The Association is not allowed, however, to arrange match games with other similar bodies without having secured the consent of the Faculty.

No student who is deficient in rhetorical or class-room work in any term shall be eligible to the office of manager or director in any student organization, or to be a member of any exhibiting organization, or of any contesting athletic team, or of any publishing or editing board during any subsequent term until such deficiency is made up.

HEALTH AND PHYSICAL CULTURE.

GEORGE W. HOSKINS, PHYSICAL DIRECTOR.

The Tustin Gymnasium has been provided for the physical training and development of young men. Young women have opportunity for physical training in the Gymnasium of the institute. These are now provided with the apparatus usually found in well-furnished gymnasiums. The Directors of the Gymnasium examine every student, taking and recording in a book his physical measurements, and prescribe such exercise as may be required for his physical development. Regular exercise in the Gymnasium is required of all students during the winter term.

AIDS AND HONORS.

PRIZES.

The prizes are awarded to the persons who in the judgment of the several committees attain the highest degree of excellence among the respective competitors, but no prize is bestowed unless a high degree of merit has been attained by the person receiving it.

THE PRIZE OF THE CLASS OF '71.

This prize, established by the Class of 1871, is awarded to the student of the Freshman Class who shall prove himself best prepared for College in the two branches, Latin and Mathematics, and who shall have received his preparatory training in Bucknell Academy.

The prize for 1904 was awarded to Jonathan Wolfe.

THE FRESHMAN DECLAMATION PRIZE.

A prize is awarded to the member of the Freshman Class who shall excel in declamation at the Annual Contest of the Freshman Class.

The prize for 1904 was awarded to Homer Sidney Smith.

THE SOPHOMORE DECLAMATION PRIZE.

A prize is awarded to the member of the Sophomore Class who shall excel in declamation at the Annual Contest of the Sophomore Class.

The prize for 1904 was awarded to Henry Jones.

DECLAMATION PRIZES FOR WOMEN.

Prizes for the best declamation, open for competition to the Sophomore and Freshman Classes, were awarded in 1904 respectively to Rachel Allie Kanarr and Lila Mabel Sill.

THE REGISTRAR'S PRIZE.

The Registrar of the University offers a prize to that member of the Junior Class who shall pronounce the best oration at the Junior Exhibition in Oratory.

The Junior oratorical prize was awarded in 1904 to Pharez Gross Hess.

The corresponding Prize for Women was awarded in 1904 to Nellie May Goddard.

THE JUNIOR DEBATE PRIZE.

Prizes are awarded to the two members of the Junior Class who evince superiority in debate at the Junior prize contest.

The first prize was awarded in 1904 to Vernon N. Robbins; the second to Jeremiah Stamey Ausherman.

THE HOLLOPETER PRIZE.

William C. Hollopeter, M. D., Class of 1874, has established an annual prize for excellence in Chemistry, to be awarded to that student at graduation who shall have done the best work in Chemistry, regard being had both to the amount and quality of the work.

The prize was awarded in 1904 to Julius Robert Hayes.

THE HERBERT TUSTIN PRIZE.

In memory of his deceased son, the late Professor Francis Wayland Tustin, Ph. D., of the Class of 1856, paid to the Trustees of the University the sum of five hundred dollars, "as the foundation of the HERBERT TUSTIN PRIZE FUND, the interest of which is to be forever paid annually as two prizes, in the proportion of fifteen dollars for the First Prize, and of ten dollars for the Second Prize, to the two students of the Senior Class who shall have attained the highest and the second highest standing in Psychology and Ethics (under such regulations for the pursuit of these studies as the Faculty of the College shall prescribe from time to time), and whose conduct for the last two years of their course in College shall have been without exception."

The first prize was awarded in 1904 to William Edward Roberts; and the second to Velola E. Hall.

THE HERBERT GOODMAN BARROWS PRIZE.

In memory of his son, the Reverend William Barrows, A. M., of the Class of 1867, paid to the Trustees of the University the sum of five hundred dollars, "as the foundation of the HERBERT GOODMAN BARROWS PRIZE FUND, the interest of which is to be forever paid annually as two prizes of equal amounts to the student or two students of the Senior Class who shall have attained the highest standing, respectively, in the Latin and in the Greek language and literature (under such regulations for the pursuit of these studies as the Faculty of the College shall prescribe from time to time), and whose conduct for the last two years of their course in College shall have been without exception."

The prize for excellence in Greek was awarded in 1904 to Charles Hodge Ealy; the prize for excellence in Latin was awarded in 1904 to Alif Stephens.

THE JOHN SPRAGUE PRIZE.

The Reverend Thomas Harry Sprague, Ph. B., of the Class of 1897, offers an annual prize to the student who excels in the courses in the English Bible, to be named in memory of his father, THE JOHN SPRAGUE ENGLISH BIBLE PRIZE.

This prize was awarded in 1904 to Margaret Groff.

THE CHAPLAIN J. J. KANE PRIZE.

The Reverend James J. Kane, A. M., Chaplain in the United States Navy, and a graduate from the Theological Department of this University, of the Class of 1867, has established a prize which is to be given annually to that member of the graduating class who delivers the best oration on Commencement Day.

The prize was awarded in 1904 to Velola E. Hall.

SCHOLARSHIPS.

I. THE BUCKNELL SCHOLARSHIPS.

The William Bucknell Scholarships, twenty in number and of $1,000 each, were established for the purpose of aiding worthy young men in securing an education which will increase their usefulness in

life. The income of these scholarships is to be paid annually to twenty young men, in accordance with the rules which will be made known upon application to the Committee of Examination, consisting of the President of the University, H. S. Hopper, Esq., and Professor Rockwood.

II. SCHOLARSHIPS FOR MINISTERS' CHILDREN.

Scholarships upon the general foundation have been established for the children of ministers of the Gospel, of all denominations, in active service.

III. THE LIVINGSTON SCHOLARSHIPS.

Established from a legacy of M. B. Livingston, twenty-two in number, are available for students for the Ministry.

IV. THE LONGAN SCHOLARSHIP.

The Longan Scholarship, established from a legacy of O. W. Longan, Esq., is available for a student for the Ministry from Lycoming County, Pennsylvania.

V. THE LEWIS E. JONES SCHOLARSHIP.

Was established from a legacy of the late Lewis E. Jones, and is available for students of Welsh descent to the amount of the income from five hundred dollars.

VI. THE MEDICO-CHIRURGICAL SCHOLARSHIP.

The Medico-Chirurgical Medical College of Philadelphia offers a scholarship covering tuition in that College to the student from Bucknell University who evinces the best preparation and aptitude for medical work.

VII. THE PHILADELPHIA ALUMNAE SCHOLARSHIP.

This scholarship, founded by the Philadelphia Alumnae Club, is available for a young woman student from Philadelphia.

VIII. THE GENERAL MILLER SCHOLARSHIPS.

Ten scholarships have been established by Major-General Charles Miller, A. M., to be awarded to worthy members of the graduating class.

IX. ANNUAL SCHOLARSHIPS.

A number of persons have established annual scholarships for the aid of young men or women attending college. Information concerning ministerial and annual scholarships can be obtained from the President of the University.

HONOR STUDIES.

In order to promote special scholarship in the several departments of study the following provision has been made:

1. Any student who has obtained an average of 9 in the studies of the previous term may take special work in any department of the College, under the direction of the Professor of that department.

2. Such work must be assigned by the Professor, and the method of study prescribed by him.

3. If the student shall attain an aggregate average of 9 in all the studies of the current term, and pass a satisfactory examination in the voluntary study, the work shall be credited to him in the Annual Catalogue of the College.

4. Only one such study shall be pursued by any one student during any one term. A student may also take two honor studies in the Summer vacation.

5. The Professor with whom the student is working shall have the privilege of requiring a partial examination on the work done at any time during the term, and there may be regular recitations at the Professor's option.

6. The amount and quality of this extra work shall be taken into account in awarding honors at graduation.

The following Honor Examinations have been sustained during the year ending June 24th, 1904:

CLASS OF 1904.

Estella May Albright, in German; Blanche Allyn Bane, in Matthew Arnold (2); Haldy Miller Christ, in Biology, in Zoölogy, and in Shakspere; Thomas Edward Cule, in School Management;

Gilbert Mason Deats, in English Literature and in American Literature; Charles Hodge Ealy, in School Management and in Municipal Government; Edward Patterson Griffiths, in Spanish; Velola Hall, in Argumentation; Julius Robert Hayes, in Spanish and in Anthropology; John Edward Heidenreich, in Spanish and in History of Modern Europe; John Erb Hunsberger, in Evidences of Christianity; Clarence Miller Hursh, in Spanish (2); Albert George Karge, in Labor Legislation and in History of Modern Europe; Royal Ivan Knapp, in School Management and in American Literature; Charles R. Myers, in Spanish; Elizabeth Eva Reed, in School Management; Chester Benjamin Renn, in American History; Olive Schillinger, in Victorian Literature and in Advanced Composition; John Henry Stahl, in American Literature; Lloyd Webster, in Blackstone, in Political Science, and in Chaucer; Walter Samuel Wilcox, in Organic Evolution; Clyde Dale Wolfe, in Labor Legislation and in Bible.

CLASS OF 1905.

Jeremiah Stamey Ausherman, in Debate and in Evidence; Emory Oliver Bickel, in Descriptive Geometry and in American Literature; Mary Isabel Bower, in American Literature; Laverda Adelia Burgart, in Higher Analytics, in Determinants, and in Astronomy; James Edward Elliott, in American Literature; Margaret Forgeus, in De Amicitia and in Literature; Edmund Roy Gardner, in Private Corporations and in Railroad Transportation; Lynn Sumner Goodman, in Organic Evolution; Frank B. Harding, in Embryology, in Physiology, and in Materia Medica; Norman Elwood Henry, in Spanish, in French (2), and in Botany; Nellie Johnson, in Conversational French; Harold Vonieda Lesher, in Blackstone, B. I, in Economics, and in Metaphysics; Earl Austin Morton, in Private Corporations, in Municipal Government, and in Money and Banking; Clarence Ira Phillips, in History of Chemistry and in Spanish (2); Vernon Nelson Robbins, in Sociology; Roberts Dale Royer, in Economics; John Calvin Sanders, in German, in Sociology, and in Botany; Charles Henry Scheick, in Metaphysics; Blaine Walter Scott, in History of Chemistry and Toxicology; Pearl Lois Smith, in German (2); Harold Edward Tiffany, in Agricultural Chemistry; Clifford Vernon Williamson, in Mechanics, in Economics, and in Railroad Surveying; Thomas Wood, in Private Corporations and in Municipal Government.

CLASS OF 1906.

Sophia Louisa Bodler, in French; Joseph Leighton Challis, in English History and in Roman History; Harold Newton Cole, in Argumentation; William Eugene DeMelt, in School Methods and in Psychology of Education; Rachel Allie Kanarr, in Spanish; Robert Benjamin Leighou, in Entomology; Grace Lenore Meek, in American Literature; Henry Taylor Meyer, in Logic and in Anthropology; Mary Montfort Moll, in Analytical Geometry and in De Amicitia; Benjamin Earl Phillips, in Logic and in Argumentation; Dickson Shaw Stauffer, in Agricultural Chemistry; Sara Ella Unger, in German, in Cicero de Amicitia, and in Latin Inscriptions.

CLASS OF 1907.

Peter Garfield Cober, in Higher Algebra; Elkanah Hulley, in German (2); Anna McGinnis, in English Literature and Civics; Rebecca Shove, in De Amicitia; Mabel Sill, in Higher Algebra; Harry Garfield Snavely, in Higher Algebra; Jonathan Wolfe, in Higher Algebra.

EXPENSES.

The College charges amount to $100 per annum, for those who room in the College buildings, and $90 for those who room in the town. Tuition is rated at $50 per annum. Students in the course in Civil or in Electrical Engineering are charged $5 per term extra. Students in the other courses who take an engineering subject are charged the same rates as students in engineering. This charge is for the regular work; when a fourth study or honor study is taken, an extra charge is made. Graduation fee and diploma, $10. Masters' Degree and Diploma, $10.

The Study Rooms in the Main College are so arranged that two students occupy the same study. The Dormitories are intended to accommodate only one person, so that each student has his own private sleeping room. These are furnished with spring bedsteads. The student must supply himself with all other furniture. Students are responsible for damage to their rooms, whether it be done when they are present in the room or absent from it.

If a student occupy a study by himself, the charges for room-rent and private fuel will be doubled.

An extra charge is made for electric lighting.

An extra charge ranging from $5 to $10 per term is charged for rooms in the West College.

An additional charge is made for rooms cared for by the Institution.

Young men in the Collegiate Department, who so desire, can have furnished rooms in the West College, with board in the Academy; young women in the same department room and board in the Women's College. The charge for the year is $265.

The assignments of rooms are for one year, and are made the first Monday morning in June, immediately after the devotional exercises in Bucknell Hall. Students from a distance will save inconvenience by applying to the Registrar for a room before the term opens.

In the Laboratories students pay for chemicals used and for apparatus broken or damaged. In the chemical laboratory $5 per term is charged for gas, water, and general chemicals for each course, except Courses 1 and 2, for which the charge is $2.50. A deposit of $5 per course is required to cover breakage and cost of extra chemicals.

A small fee is charged also in each of the elective courses in the department of Organic Science, and in Surveying and Engineering, for the use of instruments and for material used.

Before entering upon the experimental courses students must deposit with the Registrar security for materials used.

These charges must be paid in advance at the beginning of each term.

No student is entitled to his place in his class until he has made settlement with the Registrar.

Students can board in clubs at a cost of from $2.00 to $2.50 per week. Boarding can be obtained in private families at $3.00 or $4.00 per week, or at the table of the Bucknell Academy at $3.00 per week. Washing is done at 25 cents per week. No boarding is allowed in the College building.

FIFTY-FOURTH ANNUAL COMMENCEMENT.

WEDNESDAY, JUNE 22, 1904.

HONORS AT GRADUATION.

ORATIONS SUMMA CUM LAUDE.

Charles Hodge Ealy,
Margaret Groff,
Velola E. Hall,
William Edward Roberts,
Louis William Robey,
Alif Stephens,
Elizabeth Alvina Williams.

ORATIONS MAGNA CUM LAUDE.

Estella May Albright,
Blanche Allyn Bane,
Percival DeWees Browning,
Haldy Miller Christ,
Thomas Edward Cule,
Anna Zoe Davis,
Rachel Edna Eddleman,
Wallace Wilmer Fetzer,
Grace Belle Lesher,
Elizabeth Eva Reed,
David Wallace Robinson,
Olive Schillinger,
Harris Alvin Spotts,
John Henry Stahl,
Walter Samuel Wilcox.

ORATIONS CUM LAUDE.

Ralph Bennie Cook,
Frank Garfield Daniels,
Gilbert Mason Deats,
Edwin Patterson Griffiths,
Julius Robert Hayes,
John Edwin Heidenreich,
John Erb Hunsberger,
Clarence Miller Hursh,
Albert George Karge,
Ebenezer Edward Morris,
Chester Benjamin Renn,
Ira Sankey Sheppard,
Lloyd Webster,
Clyde Dale Wolfe.

ORATIONS.

Ford Dorrance Bacon,
Gaul Carrier,
Carroll Caruthers,
James G. Durham,
Roger Saunders Edwards,
Elwood F. Gilbert,
John C. Johnson,
Royal Ivan Knapp,
John Arthur Knapp,
Curtis Cook Lesher,
William Muench Martz,
Charles R. Myers,
Harold Perrine,
Edgar Taft Stevenson,
Dean Marvin Sutton,
Charles Milton Teufel,
Robert William Thompson,
Benjamin Franklin White, Jr.

DEGREES CONFERRED ON EXAMINATION.

MASTER OF ARTS.

George Morgan Davis,
David Hayes Elliott,
Andrew Nevinger Evans,
Levi Truckenmiller Fetzer,
Charles Edward Goodall,
William Christian Gretzinger,
Sara Mabel Grier,
Abram Cyrus Gunter,
Eli Peter Heckert,
Henry Joseph Johnson,
Katherine Mott Johnson,
Warren Leslie Kauffman,
Daniel Horatio Krise,
Daniel Elwood Lewis,
Howard Curtis Meserve,
John Henry Neuhauser,
William Sawyer Robinson,
Charity Margaret Runyan,
Edgar Thomas Shields,
Thomas Henry Sprague,
George Stephen Tilley,
Carl Wayland Tiffany,
Harland Adams Trax,
Amos Thomas Williams,
Charles Wagner Wolfe.

MASTER OF SCIENCE.

Caleb Barratt Ayars,
Charles Wolverton Clement,
John Belmont Cook,
Calvin Hayes Elliott,
Elbert Huff.

BACHELOR OF ARTS.

Estella May Albright,
Percival DeWees Browning,
Charles Hodge Ealy,
Edwin Patterson Griffiths,

BACHELOR OF ARTS—Continued.

Margaret Groff,
Velola E. Hall,
John Erb Hunsberger,
Clarence Miller Hursh,
Royal Ivan Knapp,
Elizabeth Eva Reed,
Chester Benjamin Renn,
William Edward Roberts,
Louis William Robey,
Olive Schillinger,
Harris Alvin Spotts,
John Henry Stahl,
Alif Stephens,
Charles Miller Teufel,
Benjamin Franklin White,
Elizabeth Alvina Williams.

BACHELOR OF PHILOSOPHY.

Blanche Allyn Bane,
Gaul Carrier,
Carroll Caruthers,
Haldy Miller Christ,
Ralph Bennie Cook,
Thomas Edward Cule,
Frank Garfield Daniels,
Anna Zoe Davis,
Gilbert Mason Deats,
Rachel Edna Eddleman,
Elwood F. Gilbert,
Wallace Wilmer Fetzer,
Julius Robert Hayes,
Albert George Karge,
Curtis Cook Lesher,
Charles R. Myers,
Dean Marvin Sutton,
Robert William Thompson.

BACHELOR OF SCIENCE.

Ford Dorrance Bacon,
James G. Durham,
Roger Saunders Edwards,
John Edward Heidenreich,
John C. Johnson,
John Arthur Knapp,
Grace Belle Lesher,
William Muench Martz,
Ebenezer Edward Morris,
Harold Perrine,
David Wallace Robinson,
Ira Sankey Sheppard,
Edgar Taft Stevenson,
Lloyd Webster,
Walter Samuel Wilcox,
Clyde Dale Wolfe.

HONORARY DEGREES CONFERRED.

MASTER OF ARTS.

Henry Augustus Hendrickson, M. D.
Abram Carpenter Overholt.

DOCTOR OF SCIENCE.

John Burroughs Weston, A. M., M. D.

DOCTOR OF DIVINITY.

The Reverend Frank Marsden Goodchild, A. M., B. D.,
The Reverend Abner Jones Irey, A. M., B. D.,
The Reverend John Thomas Judd, A. M., B. D.

DOCTOR OF LAWS.

Edward Mulford Tomlinson, A. M.

COMMENCEMENT ADDRESSES.

Baccalaureate Sermon, ...The President

Sermon, Education Society, ...Professor Ernest E. Ayres, D. D.

Address before the Literary Societies, ...Madison C. Peters, D. D.

Address before the Alumni Association, Spenser Byron Meeser, D. D.

Poem before the Alumni Association,
Mrs. Mary Bartol Theiss, PH. D.

Address, Academy Commencement, ...Frank M. Goodchild, A. M.

Address, Institute Commencement, ...Will Carleton, LITT. D.

Address to the College Class, ...Alexander Simpson, Jr., ESQ.

TEACHERS' PERMANENT CERTIFICATES.

Awarded by the State of Pennsylvania to Graduates of Bucknell College, 1903-1904:

Mary Cotton, A. B., A. M.,
Sylvester B. Dunlap, PH. B.,
Chester Benjamin Renn, A. B.,
David Wallace Robinson, SC. B.,
William Edward Roberts, A. B.,
Cloyd Nillis Steininger, SC. B.,
Yencer M. Weidensaul, SC. B.,
John Adam Young, SC. B.

BACCALAUREATE THESES.

1. Aristotle's Doctrine of the Mean,
   Estella May Albright, Mifflinburg.
2. The Preservation of the Forests,
   Ford Dorrance Bacon, Harveyville.
3. Matthew Arnold's Contribution to Criticism,
   Blanche Allyn Bane, Norristown.
4. The Financial and Social Benefits of Good Roads,
   Percival DeWees Browning, Orbisonia.
5. The History of Bessemer Steel,
   Gaul Carrier, Summerville.
6. Progressive Taxation,
   Carroll Caruthers, Irwin.
7. Biological Variation, A Factor of Heredity,
   Haldy Miller Christ, Millersville.
8. Russia: Her Highest Aim,
   Ralph Bennie Cook, Vicksburg.
9. The Social Ideal in Education,
   Thomas Edward Cule, Plymouth.
10. English Nature Poets,
    Anna Zoe Davis, Carlisle.
11. The Prohibition of the Trusts,
    Frank Garfield Daniels, Nanticoke.
12. The Racking of the Russian Peasantry,
    Gilbert Mason Deats, Pittstown, N. J.
13. The Nebular Hypothesis,
    James G. Durham, Watsontown.
14. The Neutral Policy of the United States,
    Charles Hodge Ealy, Schellsburg, Pa.
15. The Individualistic Movement in Germany,
    Rachael Edna Eddleman, Greensburg, Ind.
16. Asphalt,
    Roger Saunders Edwards, Lewisburg.

17. English Difficulties in the Occupation of Egypt,
WALLACE WILMER FETZER, Montandon.

18. Municipal Ownership of Natural Monopolies,
ELWOOD F. GILBERT, Montoursville.

19. Robert Louis Stevenson: His Life and Work,
EDWIN PATTERSON GRIFFITHS, Pittsburg.

20. The Democracy of Learning,
MARGARET GROFF, Lewisburg.

21. Was Emerson a Christian?
VELOLA E. HALL, Sharon.

22. A Rising Power in Steel,
JULIUS ROBERT HAYES, Montoursville.

23. Uplifting the American Blacks,
JOHN EDWARD HEIDENREICH, Mahanoy City.

24. Modern Education and the Student for the Ministry,
JOHN ERB HUNSBERGER, Ephrata.

25. State Protection for the Investor,
CLARENCE MILLER HURSH, Mifflinburg.

26. The Employment of Convict Labor in Road-making,
JOHN C. JOHNSON, Red Top.

27. Martin Luther and the Reformation,
ALBERT GEORGE KARGE, Camden, N. J.

28. Correlation of Studies in the Public Schools,
ROYAL IVIN KNAPP, Union City.

29. The Africo-American,
JOHN ARTHUR KNUPP, Penbrook.

30. Municipal Proprietorship,
CURTIS COOK LESHER, Lewisburg.

31. Diplomacy of the Nicaragua Canal,
WILLIAM MUENCH MARTZ, Crowl.

32. The Belmont Filtration Works of West Philadelphia,
EBENEZER EDWARD MORRIS, Mahanoy City.

33. The Great Forces of the Reformation,
CHARLES R. MYERS, Lewisburg.

34. True Functions of a Labor Union,
HAROLD PERRINE, Lewisburg.

35. The Works of Goethe and Schiller Contrasted,
ELIZABETH EVA REED, Lewisburg.

36. The North American Indian,
CHESTER BENJAMIN RENN, Unityville.

37. The Education of the Masses,
WILLIAM EDWARD ROBERTS, Frackville.

38. The Rule in Shelly's Case,
LOUIS WILLIAM ROBEY, Baltimore, Md.

39. Herbert Spencer's Philosophy,
DAVID WALLACE ROBINSON, Mooresburg.

40. The Magnetic Influence of the Sun on the Earth,
IRA SANKEY SHEPPARD, Newport, N. J.

41. "In Memoriam,"
OLIVE SCHILLINGER, Martin's Ferry, Ohio.

42. The Influence of the Greek Teacher,
HARRIS ALVIN SPOTTS, Muncy.

43. Justification of Our Panama Policy,
EDGAR TAFT STEVENSON, Franklin.

44. Conditions Among the Laborers,
JOHN HENRY STAHL, Milton.

45. Burns's Attitude Towards the Church,
ALIF STEPHENS, Lewisburg.

46. The Man Behind the Pulpit and His Influence on Society,
DEAN MARVIN SUTTON, Union City.

47. Essentials of a Journalistic Career,
CHARLES MILTON TEUFEL, Milton.

48. Scraps from Luther and the Reformation,
ROBERT WILLIAM THOMPSON, Irwin.

49. The Tendency of the English Language to Become Universal,
LLOYD WEBSTER, East New Market, Md.

50. Comparative Anatomy,
BENJAMIN FRANKLIN WHITE, JR., Bradford.

51. The Neutral Policy of the United States,
WALTER SAMUEL WILCOX, Canton.

52. Our Relation to the Supreme Act,
ELIZABETH ALVINA WILLIAMS, Lansford.

53. Educational Qualifications for Suffrage,
CLYDE DALE WOLFE, Lewisburg.

THE ACADEMY.

INSTRUCTORS AND OTHER OFFICERS.

JOHN HOWARD HARRIS, PH. D., LL. D.,
PRESIDENT OF THE UNIVERSITY.

BENJAMIN F. THOMAS, A. M., PRINCIPAL,
LATIN.

MARTIN LINNAEUS DRUM, PH. B.,
MATHEMATICS.

FRANK EUGENE BURPEE, A. M.,
GREEK.

WILLIS EDGAR MANEVAL, SC. M.,
SCIENCE.

LOUIS WILLIAM ROBEY, A. B.,
GREEK AND LATIN.

WALTER SAMUEL WILCOX, SC. B.,
HISTORY AND ENGLISH.

WILLIAM CHRISTIAN GRETZINGER, A. M.,
REGISTRAR OF THE UNIVERSITY.

ACADEMY STUDENTS.

FOURTH FORM.

CLASSICAL.

NAME.	RESIDENCE.	ROOM.
JOHN WILLIAM GRANDFIELD,	*Clarksboro, N. J.*	No. 11, Main Hall
WILLIAM LEISER,	*Lewisburg.*	North Fourth Street
WALLACE MCLAUGHLIN,	*Philadelphia.*	No. 32, East Wing
CHARLES AUGUSTUS NYBERG,	*New York City.*	No. 29, West Wing
WILLIAM PROSSER,	*Black Diamond, Wash.*	No. 10, East Wing
CHARLES STILLWELL ROUSH,	*Winfield.*	Winfield

SCIENTIFIC.

HERMAN SPEDDY BROWN,	*Osceola Mills.*	No. 22, East Hall
JAMES WILSON FERRELL,	*New Freeport.*	No. 11, Main Hall
WILLIAM EDWARD FOWLER,	*Montgomery.*	Montgomery
WALTER SYLVANUS FRICK,	*Lewisburg.*	North First Street
RAYMOND SOBER MOYER,	*East Mauch Chunk.*	No. 10, East Hall
ALBERT WAFFLE OWENS,	*Lewisburg.*	South Sixth Street
ARTHUR GRAHAM RIDENOUR,	*Scranton.*	No. 20, East Hall

THIRD FORM.

CLASSICAL.

NAME.	RESIDENCE.	ROOM.
Frederick Blaser,	*Philadelphia.*	No. 32, West Wing
William Hayes Gatehouse,	*Frostburg, Md.*	No. 6, Main Hall
Arthur William King,	*Philadelphia.*	No. 12, Main Hall
Frank Joseph Liddy,	*Renovo.*	No. 9, East Hall
Edwin John Radcliffe,	*Patton.*	Lewisburg
Max Conrad Wiant,	*Connellsville.*	No. 12, Main Hall

SCIENTIFIC.

Charles Furman Dunkle,	*Lewisburg.*	Lewisburg
Jesse Eigelberner,	*Lewisburg.*	South Third Street
Francis Harper Hutchison,	*Sunbury.*	Sunbury
Herman Henry Klerx,	*Sunbury.*	No. 14, East Hall
Harold McClure Neff,	*Sunbury.*	Sunbury

SECOND FORM.

William Perry Baker,	*Tamaqua.*	No. 23, East Hall
Russell Stuart Boyd,	*Galeton.*	No. 8, East Hall

NAME.	RESIDENCE.	ROOM.
WALTER I. CAMPBELL,	*Mt. Jewett.*	No. 17, East Hall
JOHN NORMAN CHALFANT,	*Lenover.*	No. 11, East Hall
HOWARD GARRISON,	*Dividing Creek, N. J.*	No. 8, Main Hall
JAMES ROBERT GEMMILL,	*Allenwood.*	Allenwood
LEON E. KONKLE,	*Montoursville.*	No. 18, East Hall
RALPH WARREN KUNKEL,	*Lewisburg.*	Lewisburg
JOSIAH TUSTIN LITTLE,	*Bloomsburg.*	No. 8, East Hall
BERTRON A. MELLANDER,	*Mt. Jewett.*	No. 17, East Hall
ELMER E. NEAGLEY,	*Milton.*	Milton
HERBERT MURRAY OSBORN,	*Milton.*	Milton
WILLIAM E. PARSONS,	*Montgomery.*	No. 19, East Wing
JOHN OAKLEY SIMINGTON,	*Moresburg.*	No. 10, Main Hall.
GALEN RAY SMITH,	*Beaver Springs.*	No. 11, East Hall
EVAN THOMAS,	*Lewisburg.*	East Market Street
ARTHUR STEWART WAHL,	*Reading.*	No. 5, Main Hall
RALPH LEROY WALL,	*Sunbury.*	Sunbury
LEON WATROUS,	*New York City.*	South Third Street
ANDREW WOLFE,	*Lewisburg.*	Lewisburg
CHARLES GILCHRIST WOOD,	*Jersey City, N. J.*	No. 4, Main Hall

FIRST FORM.

NAME.	RESIDENCE.	ROOM.
Albert Daniel Barton,	*Philadelphia.*	No. 13, East Hall
Charles Rodman Barton,	*Philadelphia.*	No. 15, East Hall
Florentino Diaz,	*Merida, Yucatan, Mex.*	No. 13, East Hall
George Y. Dietrich,	*Lewisburg.*	Lewisburg
Arthur R. Gearhart,	*Lewisburg.*	Lewisburg
Coleman John Harris,	*Lewisburg.*	University Avenue
James Pardon Harris,	*Lewisburg.*	University Avenue
Frank Russell Hamblin,	*Lewisburg.*	South Third Street
Laurence Ambrose Henderson,	*Montgomery.*	Montgomery
Carl Robbins,	*Scranton.*	No. 21, East Hall
Gilbert Schoch,	*Lewisburg.*	Lewisburg

STUDENTS PURSUING SELECT STUDIES.

Wilbert F. Bateman,	*Dividing Creek, N. J.*	No. 8, Main Hall
Arturo Berrayarza,	*Cienfuegos, Cuba.*	No. 20, East Hall
Fernando Berrayarza,	*Cienfuegos, Cuba.*	No. 19, East Hall
Mario Berrayarza,	*Cienfuegos, Cuba.*	No. 19, East Hall
Walter A. Blair,	*Wellsboro.*	No. 16, West Wing

NAME.	RESIDENCE.	ROOM.
RAMIRO DIAZ,	*Merida, Yucatan, Mex.*	No. 13, East Hall
HERBERT R. DRAKE,	*Coudersport.*	No. 21, West College
GEORGE DUDLEY FOOT,	*Oswego, N. Y.*	No. 6, Main Hall
CHARLES EDGAR HILBISH,	*Northumberland.*	Northumberland
WILLIAM CURRIE HULLEY, JR.,	*Lewisburg.*	South Fourth Street
WILMER C. JOHNSON,	*Downingtown.*	No. 5, Main Hall
THEODORE KAMENSKY, JR.,	*Clearwater, Fla.*	No. 18, East Hall
JOHN THOMPSON LOVETT,	*Little Silver, N. J.*	No. 9, East Hall
CHARLES VINCENT MICHNER,	*Dewart.*	Dewart
FRANCISCO PEREZ,	*Merida, Yucatan, Mex.*	Lewisburg
WILLIAM HENRY REESE,	*Scranton.*	No. 20, East Wing
JAMES R. REICHLEY,	*Lewisburg.*	Lewisburg
KLEINE HARLAN ROYER,	*Rebersburg.*	No. 18, West College
PRESTON METTLER SAVIDGE,	*Sunbury.*	Sunbury
ALFRED W. SCHOOLEY,	*Braddock.*	No. 86, West College
EMORY SEASHOLTZ,	*Sunbury.*	Sunbury
CLINTON ELMER SITLER,	*Tamaqua.*	No. 10, East Hall
ALFRED M. VERNER,	*Ingram.*	No. 22, East Hall

SUMMARY.

The Fourth Form, Classical	6	
Scientific	7	
		—13
The Third Form, Classical	6	
Scientific	5	
		—11
The Second Form	21	
The First Form	11	
Students Pursuing Select Studies	23	
		—55
Total in Academy		79

Students enrolled in other departments of the University who receive instruction in the Academy classes:

Greek of the Fourth Form	2	
Third Form	7	
Latin of the Second Form	3	
Third Form	4	
Fourth Form	3	
Mathematics	6	
		—25
Total receiving instruction in Academy classes		104

COURSES OF STUDY.

The Academy is designed to fit pupils for College, for Teaching, or for Business. It offers three Courses of Study.

I. The Classical Course extends through four years and is arranged to meet the requirements for admission to College. The study of Latin begins with the First Form and continues for four years. The study of Greek begins with the Third Form and continues for two years. Notwithstanding the time given to these branches of study, fully one-half of the time of the entire course is devoted to English, Historical, Mathematical, and Scientific subjects.

II. The Latin Scientific Course extends through four years and furnishes adequate preparation for either division of the Philosophical Course in College. The First and Second Forms of the Classical and Scientific Courses are identical. In the Third and Fourth Forms, the student preparing for the Latin Division substitutes Historical and Scientific subjects for the Greek of the Classical Course; while the student preparing for the Greek division substitutes the Greek of the Third and Fourth Forms for the Latin and includes Historical and Scientific subjects.

III. The Scientific Course extends through four years and prepares for the Courses in eneral Science, in Biology, in Chemistry, and in Civil and Electrical Engineering in College. For the Vergil and the Cicero of the Latin Scientific Course, it substitutes one term of Advanced English, one term of Chemistry, and two years of German.

Students who are able to accomplish more work in the allotted time than is required by the Course may pursue honor work in the Classics by reading, under an instructor's direction, Cæsar's Civil War, Cicero's Letters, or Vergil's Eclogues, and Books IV, V, VI of the Iliad, or the Cyropædia.

Students will be admitted to the Form for which they are prepared.

Students who do not intend to enter College, but who desire a comprehensive academic training, will find the Scientific or the Latin Scientific Course well adapted to prepare them for teaching or for business.

Special classes in History and Literature will be maintained to meet adequately the requirements of applicants for examination and registration as students at law, under the rules adopted by the Supreme Court of Pennsylvania.

CURRICULA.

Arabic numerals indicate the number of recitations a week in each subject.

I. THE CLASSICAL COURSE.

FIRST FORM.

I. Term—	Algebra, 5,	English, 4,
	Latin, 5,	Bible, 1,
	History, 5,	
II. Term—	Algebra, 5,	English, 4,
	Latin, 5,	Bible, 1.
	Drawing, 5,	
III. Term—	Geometry, 5,	English, 4,
	Latin, 5,	Bible, 1.
	History, 5,	

SECOND FORM.

I. Term—	Higher Arithmetic, 5,	Rhetoric, 4,
	Cæsar, Introduction, 5,	Bible, 1.
	Grecian History, 5,	
II. Term—		
	{ Book-keeping,	Roman History, 5,
	{ Commercial Arithmetic, 5,	Literature, 4,
	Cæsar, 5,	Bible, 1.
III. Term—	Physical Geography, 5,	Literature, 4,
	Cæsar, 5,	Bible, 1.
	U. S. History, Advanced, 5,	

THIRD FORM.

I. Term—Algebra, 5, Elocution, 4,
Cæsar, 5, Bible, 1.
Greek, 5,

II. Term—Algebra, 5, Literature, 4,
Cicero, 5, Bible, 1.
Greek, Anabasis, 5,

III. Term—Algebra, 5, Literature, 4,
Cicero, 5, Bible, 1.
Greek, Anabasis, 5,

FOURTH FORM.

I. Term—Geometry, 5, Cicero, 5,
Vergil, 5, Greek, Anabasis, 5.

II. Term—Geometry, 5, { Cicero, / Ovid, } 5,
Vergil, 5,
Iliad, 5.

III. Term—Physics, 5, Iliad, 5,
Vergil, 5, Anabasis, 5.

II. THE LATIN SCIENTIFIC COURSE.

FIRST FORM.

I. Term—Algebra, 5, English, 4,
Latin, 5, Bible, 1.
History, 5,

II. Term—Algebra, 5, English, 4,
Latin, 5, Bible, 1.
Drawing, 5,

III. Term—Geometry, 5, English, 4,
Latin, 5, Bible, 1.
History, 5,

SECOND FORM.

I. TERM—Higher Arithmetic, 5, Rhetoric, 4,
Cæsar, Introduction, 5, Bible, 1.
Grecian History, 5,

II. TERM—
{ Book-keeping, Roman History, 5,
{ Commercial Arithmetic, 5, Literature, 4,
Cæsar, 5, Bible, 1.

III. TERM—Physical Geography, 5, Literature, 4,
Cæsar, 5, Bible, 1.
U. S. History, Advanced, 5,

THIRD FORM.

I. TERM—Algebra, 5, Elocution, 4,
Cæsar, 5, Bible, 1,
German, 5, or *History of England,* 5.

II. TERM—Algebra, 5, Literature, 4,
Cicero, 5, Bible, 1,
German, 5, or *Chemistry,* 5, or *Civics,* 5.

III. TERM—Algebra, 5, Literature, 4,
Cicero, 5, Bible, 1,
German, 5, or *Botany,* 5.

FOURTH FORM.

I. TERM—Geometry, 5, *German,* 5,
Vergil, 5, or *Physiology,* 5.
Cicero, 5,

II. TERM—Geometry, 5, { Cicero, } 5,
Vergil, 5, { Ovid, }
German, 5, or *Astronomy,* 5.

III. TERM—Physics, 5, *German,* 5,
Vergil, 5, or *Geology,* 5,
Solid Geometry, 5.

III. THE SCIENTIFIC COURSE.

FIRST FORM.

I. Term—	Algebra, 5, Latin, 5, History, 5,	English, 4, Bible, 1.
II. Term—	Algebra, 5, Latin, 5, Drawing, 5,	English, 4, Bible, 1.
III. Term—	Geometry, 5, Latin, 5, History, 5,	English, 4, Bible, 1.

SECOND FORM.

I. Term—	Higher Arithmetic, 5, Cæsar, Introduction, 5, Grecian History, 5,	Rhetoric, 4, Bible, 1.
II. Term—	{ Book-keeping, { Commercial Arithmetic, 5, Cæsar, 5,	Roman History, 5, Literature, 4, Bible, 1.
III. Term—	Physical Geography, 5, Cæsar, 5, U. S. History, Advanced, 5,	Literature, 4, Bible, 1.

THIRD FORM.

I. Term—	Algebra, 5, Cæsar, 5, German, 5,	Elocution, 4, Bible, 1.
II. Term—	Algebra, 5, Chemistry, 5, German, 5,	Literature, 4, Bible, 1.
III. Term—	Algebra, 5, Botany, 5, German, 5,	Literature, 4, Bible, 1.

FOURTH FORM.

I.	TERM—Geometry, 5,	History of England, 5,
	Physiology, 5,	German, 5.
II.	TERM—Geometry, 5,	Civics, 5,
	Astronomy, 5,	German, 5.
III.	TERM—Physics, 5,	German, 5,
	Geology, 5,	Solid Geometry, 5.

TEXT-BOOKS.

ENGLISH LANGUAGE AND LITERATURE:—"Mother Tongue," by Kittredge and Arnold; Composition and Rhetoric, by Lockwood and Emerson; Pancoast's Representative English Literature; English and American Classics, various editions.

MATHEMATICS:—Wentworth and Hill's Higher Arithmetic; Durell and Robbins' Complete Algebra; Wentworth's Geometry; Bryant's High School Book-keeping.

HISTORY AND GOVERNMENT:—McLaughlin's United States; Myers' General; Myers' Greece; Myers' Rome; Montgomery's English; Macy's Civil Government.

GREEK:—White's First Greek Book; Goodwin's Greek Grammar; Goodwin's Anabasis; Seymour's Iliad; Pearson's Prose Composition.

LATIN:—Collar and Daniell's First Latin Book; Collar's Gate to Cæsar; Allen and Greenough's Grammar; Bennett's Latin Prose; Allen and Greenough's New Cæsar; Greenough and Kittredge's Vergil; Allen and Greenough's New Cicero.

SCIENCE:—Davis's Physical Geography; Carhart and Chute's Physics; Young's Lessons in Astronomy; Martin's Briefer Course in Physiology; Le Conte's Elements of Geology; Arey's Chemistry.

METHODS OF INSTRUCTION.

The Preparatory Curriculum naturally falls into seven principal lines of study, viz.: English, German, Latin, Greek, History, Mathematics, and Natural Science. These combine, in due proportion, the cultural, the disciplinary, and the practical elements of intermediate education. The two great divisions of modern study, the Classical and the Scientific, are accorded adequate and appropriate preparation. The subjects, facilities, and methods of the various departments are explained below.

I. THE ENGLISH LANGUAGE.

A thorough grounding in the principles of English Grammar is indispensable to the student's progress in the subsequent language studies. The continuous application of this knowledge in Composition, and the constant comparison with the forms and idioms of the Ancient Languages, prepare the way for the study of elementary Rhetoric, and the appreciative reading of English and American Literature. This work is done in the First Form.

In the Second Form a review in the principles of English Grammar is given, and a practical application of the same, together with rhetorical structure in paragraph writing and composition.

In the Third Form the first term is devoted to the study of Elocution, and the remaining two terms take up the study of Literature. The reading and study of the masterpieces of English and American Literature is maintained by means of daily recitations. The work required is identical with the "Scheme of Uniform Entrance Examinations in English Language and Literature," adopted by the "Association of Colleges and Preparatory Schools of the Middle States and Maryland." It comprises (a) careful reading of representative works of certain authors, as literature; (b) thorough study as to "subject-matter, form, and structure" of other selections.

II. THE LATIN LANGUAGE.

Careful drill is given in the declensions and conjugations, in the use of the moods and the sequence of tenses, in the ready reading of the Latin text, in sight reading and in accurate translation into idiomatic English. Attention is given to the important personal,

historical, and political elements in the writings of Cæsar and Cicero. In Vergil, the student is introduced to the poetry, legend, religion, and art of Rome. He is taught to investigate the allegorical, archæological, and mythical allusions of the Æneid, and to appreciate it as the mirror of the life of the Empire. Latin prosody is taught first from the text, and then from the grammar.

III. THE GREEK LANGUAGE.

The first two terms of the Third Form are spent in a thorough study of White's First Greek Book. In the third term Xenophon's Anabasis is read, and special attention is given to acquiring a vocabulary and to the forms and syntax of nouns, pronouns, and adjectives. In the first half of the Fourth Form the reading of Xenophon is continued. During the last half year Homer's Iliad is read, and the difference between the Homeric and Attic Forms is noted. Throughout the course Prose Composition is frequently required for the purpose of acquiring a vocabulary and a knowledge of syntax.

IV. THE GERMAN LANGUAGE.

One year's study of German is required of members of the Third and Fourth Forms of the Scientific Course. The same work may be elected by the members of the corresponding form of the Latin Scientific Course instead of the science subjects of that course. In the study of German, the aim is a thorough acquaintance with declensions and conjugations; facility of pronunciation; quick recognition of words both by the eye and the ear; as extensive a vocabulary as the time will allow; and by constant practice the laying of a foundation for reading, writing, and speaking the language.

V. HISTORY.

The course in History includes a survey of the History of the United States, of England, of Greece, and of Rome. The aim is to acquaint the student with the life, the genius, the institutions, and the achievements of the respective peoples, and their part in the wider history of mankind.

Additional courses are offered in Ancient, Mediæval, and Modern History, and extra courses in the historical readings required of applicants for examination and registration as students at law by the Supreme Court of Pennsylvania.

Civil Government is taught as a preparation for intelligent

citizenship. The origin and growth of our institutions, the functions of the various departments of the National, State, and local governments, the political history of the people, the interpretation and construction of the Constitution, are presented and discussed.

VI. MATHEMATICS.

Arithmetic. To students who are fitting themselves for business, a course is given in practical business Arithmetic, involving all the ordinary problems and practices in the business world. To those who are preparing for college or for teaching, instruction is given in the theory and science of Arithmetic. Pupils are expected to master the principles and then to formulate their own rules.

Algebra. The Third Form course extends through one year, and includes a knowledge of the fundamental principles, Factoring, Divisors, and Multiples, Fractions, Equations, Involution, Evolution, Theory of Exponents, Radicals, and Quadratic Equations. Daily blackboard work serves to apply the principles taught. The student is required both to know the methods of the solution of problems and also to explain the operation to the class.

The First Form takes up Algebra for the first two terms. The work is intended to give the pupils a knowledge of algebraic principles and to assist them in their Arithmetic. The third term is devoted to Concrete Geometry and Mechanical Drawing.

Plane and Solid Geometry. The instruction consists in daily recitations for three terms on the Theorems and Problems given in the text-book, with original demonstrations of the same propositions by the students from hints and figures given in the class-room. Besides this, considerable attention is given to the solution of original Propositions, and the application of principles thus learned to the solution of numerical problems.

Book-keeping. A practical introduction to the science of accounts is secured in the term devoted to mastering the principles of Double Entry Book-keeping. Careful attention is given to business forms, to the usages of Banks, and to the elements of Commercial Law. The subject may be pursued in its more extended and intricate applications by a second term's work, open to properly qualified students.

VII. SCIENCE.

Physical Geography lays a foundation for subsequent work in all sciences. It surveys the earth's physiography, climate, atmos-

phere, fauna, flora, ocean tides and currents, and geological agencies. Special attention is given to the physical features of the United States. The subject is illustrated by drawings, photographs, colored and relief maps, and specimens from the Museum.

Botany is taught by text-book, field exercise, plant analysis, and weekly lectures. A brief outline is first obtained of plant structure, physiology, growth, and reproduction. The subject is then reviewed by daily drill in analyzing, recording, classifying, and preserving specimens. The recorded analysis of fifty plants is required. Lectures explaining special forms of vegetable growth, the flora of this country, the cultivation, uses, and history of plants complete the work.

Physiology. Every effort is made to impart clear ideas of the structure, parts, and functions of the human body. Special attention is given to the chemistry of foods, the laws of health, the effects of stimulants and narcotics. Suggestions are constantly made as to poisons and their antidotes, the care of the sick, disinfection and sanitation, and accidents and emergencies. Charts, manikin, and preparations are used in class.

Physics. The student is grounded in the elements of mechanics and physics. The apparatus of the College Laboratory is available for use. The historical beginnings of each subject, and subsequent development, are sketched in brief lectures. No pains are spared to familiarize the pupil with the laws of these sciences, by instruction, experiments, review, and repeated examination. The truth of principles is proved, except where the demonstration involves mathematics of the higher course in College.

Astronomy. Descriptive Astronomy discusses the earth's relations to the solar system, the masses, motions, and orbits of each member of it; the causes and consequences of the motions of the earth; general boundaries of the constellations of the Zodiac and northern heavens; the theories of comets, meteors, and nebulæ. Charts, star maps, globes, and other apparatus are used, and the student is afforded privileges of observation in the College Observatory.

Geology. The student masters the elements of lithological, structural, dynamic, and historical Geology. Specimens of various rocks and minerals are handled in class; their composition, characteristics, and place in nature are explained; the structure of the earth in its present form is studied; the history of its evolution, the age and characteristics of its strata, the chief geological features of each

continent, and the forces at work, and that have worked, to produce changes are considered.

VIII. ORATORY.

Class Exercises. Members of the Fourth Form prepare and deliver two original orations each term. All other students have regular exercises in Composition and Declamation throughout the year. Public exercises are held on Saturday morning, before the faculty and students of the Academy. Visitors are cordially invited to these exercises.

In addition to the private rehearsals for the work above indicated, students in the Third Form receive daily instruction in elocution during the Fall term. The course includes careful drill in the Elementary sounds, in Articulation, and in expression; in Analytical Reading, including the Bible and Hymns; and the reading of Shakspere.

IX. SPECIAL BRANCHES.

Bible Study. The study of the Bible is pursued as a regular weekly recitation throughout the First, Second, and Third Forms, in all Courses of study. A scheme of study is arranged at the beginning of each year. It is intended that the successive schemes for the various years of the course will cover the Life of Christ, the historical portions of the Old Testament foreshadowing the Christ, and the history of the Apostolic Church.

The Study of Music may be pursued by Academic students under the instruction of Professor E. Aviragnet and his assistants, of the School of Music.

Drawing. All students of the Academy may receive throughout the year weekly lessons in Free-hand Drawing and Penmanship without extra charge. Special individual instruction in Drawing in the Art Studio is afforded at twenty-four dollars per annum.

X. HEALTH AND PHYSICAL CULTURE.

The Tustin Gymnasium affords opportunity for physical exercise. The Directors of the Gymnasium give regular class exercises to the students of the Academy. Attendance upon physical training in the Gymnasium is obligatory during the Winter Term.

The Athletic Association of the Academy has been formed to encourage and regulate athletic sports. The Association is

allowed to arrange match games with other similar bodies by first securing the consent of the Principal.

PUBLIC EXHIBITIONS.

THIRD FORM.

The Public Exhibition in Declamation by the Third Form will take place on Saturday evening, April 15th, 1905, in Bucknell Hall.

FOURTH FORM.

The closing exercises of the Academy will be the Public Exhibition in Oratory of the Fourth Form, on Tuesday morning, June 20th, 1905.

GENERAL INFORMATION.

ADVANTAGES.

To the student seeking preparation for College, the Academy offers unusual inducements. Its proximity to the College secures to him an atmosphere of study, acquaintance with the guides and companions of his future course, and the benefit of numerous literary exercises to be found only in College towns. He has access to the College Library and Reading Room. The Academy is designed to fit pupils thoroughly for College and Technical Schools, and to lay broad and solid foundations for all subsequent scholarly culture and for the successful conduct of every-day affairs.

GOVERNMENT.

Students are encouraged to regard self-government as the only true government. It will be the constant endeavor to secure uprightness of character, gentlemanly deportment, and diligent application to work, by kind treatment, and high standards in conduct and study.

I. ADMINISTRATION.

1. The general control of the Academy is vested in the President of the University.

2. The government of the Academy, subject to such control, rests with the Principal of the Academy.

3. The government of each Hall is vested in the Instructor in charge, who resides in the Hall and enforces regulations for the Hours of Study, Academy Property, Hygienic Precautions, and General Deportment, and such other prudential regulations as may be ordered by the joint concurrence of the President of the University and the Principal of the Academy.

4. Each Instructor shall have charge of his classes with reference to attendance upon recitations. He shall report to the Principal cases of non-attendance, and inexcusable failure on the part of students to prepare regular lessons or special work assigned.

II. VIOLATION OF RULES.

1. Any officer of the Institution becoming cognizant of any violation of the regulations by any pupil shall report the same to the Principal of the Academy, who shall make a record of the fact in a book provided for the purpose.

2. Every violation of the laws and prudential regulations of the Academy will subject the offender to a penalty of demerits, graded according to the flagrancy and frequency of the offense.

3. When the sum of a pupil's demerits equal ten it shall be the Principal's duty to notify the parent or guardian of the offender, specifying the offense; for every additional ten demerits like notification shall be made.

4. Additional disciplinary penalties in the form of reprimand, "campus" suspension, dismissal, or expulsion, according to the necessities of the case, will follow repeated violations.

BUILDINGS AND ROOMS.

The Academy Buildings are described in detail in the introductory pages of the Catalogue.

The Main Building contains, besides its accommodations for other school and boarding purposes, rooms for students. The rooms are designed to accommodate two students each, and are twenty feet by twelve feet, and fourteen feet high. They are subdivided into a study room twelve feet by ten feet, and a sleeping room nine feet square.

The East Hall contains combined study and sleeping rooms, each designed for two students. These rooms are fifteen feet by twelve feet, with high ceilings, and contain two commodious closets and two single wire mattress beds with all necessary furniture.

UNFURNISHED ROOMS.

The Academy has a number of unfurnished rooms for the accommodation of students of mature years and of limited means. No attention by servants is given to these rooms, nor are lights supplied. Two students occupy a study room in common. The sleeping rooms are provided with single bedsteads with wire mattresses. All other furnishing is to be done by the occupants. While second-hand articles of furniture may be obtained here, it will be to the student's advantage to bring from home bedding and carpets.

The dimensions of the study rooms are ten feet by twelve feet; of the sleeping rooms, nine feet by nine feet.

ARTICLES REQUIRED.

Each student should be provided with an umbrella, overshoes, table napkins, towels, soap, and other articles usually required for personal comfort. All articles for the laundry should be marked with the owner's name.

BOARDING.

All students from a distance will occupy rooms and will board in the Academy, except for reasons jointly satisfactory to the President of the University and the Principal of the Academy.

The Principal and his family, the Instructors, and the Matron live in the building, take their meals with the boarders, and strive in all possible ways to secure the welfare and happiness of the students. The Instructors occupy rooms adjacent to the students' apartments. The appointments of the Dining Room, the character of the table supplies, the household service in general, are designed to furnish the comforts of a first-class boarding-house. So far as may be warranted by the deportment of the students, there will be absent from the home-life of the school all needless uniformity and irksome limitations, which disregard the reasonable individual preference of pupils.

The Academy gives to furnished rooms daily and complete attention, provides and washes all bedding and bed clothing, and supplies and cares for all lights.

Engagements for board and rooms are expected to continue without change to the end of the school year for which they are made.

APPLIANCES.

The Academy is in possession of excellent apparatus for instruction. A select Reference Library, containing Encyclopedias, Lexicons, Dictionaries, Atlases, and various other helps, is accessible to students at all hours. The Classical Recitation Rooms are provided with Kiepert's Wall Maps of Ancient Geography, and with Reinhard's Album of Ancient Antiquities, mounted. Metric apparatus, Maps and Globes render assistance in other directions.

The apparatus of the College also is accessible to the classes for purposes of experiment and illustration.

The College Library, numbering 26,000 volumes, is available for all students.

SCHOOL-ROOM.

In order to insure favorable conditions of study, the Academy maintains a commodious and well-appointed school-room. The school life centers in this room. Here, except when engaged in recitations, day students prepare their work, unless excused for a part of the time, for good cause; here, also, all the younger students of the lower forms prepare for their recitations. Advanced students and those of maturer years, who have acquired habits of independent study, are granted the privilege of preparing part of their work in their rooms, provided that they maintain high scholarship and excellent deportment.

HOURS.

The time devoted to study and recitation amounts to nine hours every week-day, except Saturday, when it is only two hours. This time should be sacred to its purpose. Parents of day pupils are requested to co-operate with the school in securing attention to evening study hours, and to avoid furnishing occasions or granting excuses for absence.

Students from a distance should be in Lewisburg on the day preceding the opening of each term, and no student should leave until the term has closed. Punctuality in attendance is essential to success in school work.

For terms and vacations, see the Calendar of the University.

STANDING AND PROMOTIONS.

The weekly averages of marks for recitations are recorded, and also failures in conduct and attendance. The scale for such markings range from 10, or perfect, to 0, or inexcusable failure. Unexcused absences count as zero.

Monthly and term examinations are held in the studies thus far completed, and term reports of the average in scholarship, attendance, and conduct of each student are sent to parents or guardians by the Principal.

No student is promoted to the next higher class whose grade in any study is less than 7.

Students who complete the Preparatory Courses of Study are admitted to standing in corresponding divisions of the Freshman Class in the College, upon the Principal's certificate, without examination.

All students who complete in a satisfactory manner any of the Courses of Study, and who have sustained irreproachable character during their school residence, shall be entitled to the diploma of the Academy.

Students attaining an average standing of 9 are encouraged to take work additional to the Regular Courses of Study.

PRIZES.

THE HARRY S. HOPPER PRIZE.

Mr. Harry S. Hopper, of Philadelphia, Chairman of the Board of Trustees, offers an annual prize for excellence in Composition.

This prize for 1904 was awarded to Will Carleton Sprout.

THE REV. DAVID PORTER LEAS PRIZE.

Rev. David P. Leas, of Philadelphia, Treasurer of Bucknell University, offers an annual prize to that member of the Third Form who shall excel in the Annual Exhibition of Third Form in Declamation.

This prize for 1904 was awarded to John William Grandfield.

THE WILLIAM E. MARTIN PRIZE.

Principal Thomas offers an annual prize, named in honor of Professor William E. Martin, to that member of the Fourth Form who shall pronounce the best oration at the Academic Graduating Exhibition.

This prize for 1904 was awarded to Claude Graves Moore.

LITERARY SOCIETY.

This is a voluntary organization of students for mutual improvement in literary and oratorical exercises. It has a large and convenient hall in the Main Academy Building, where meetings are held on Friday evenings.

RELIGIOUS SERVICES.

The duties of each day are opened with devotional exercises, which all students are required to attend. Devotional exercises are

also held every evening, just before the evening study hour. All academic students residing on the University campus are required to attend these exercises.

Regular attendance at Sunday-school and upon public worship at some church on Sunday morning, is required; also upon services on Thanksgiving Day, and the Day of Prayer for Colleges. Attendance upon Christian Endeavor or other like Young People's Society, and the mid-week prayer-meetings, while voluntary, is strongly urged upon students.

Parents or guardians are requested to indicate to the Principal the church which they desire their sons or wards to attend.

The Academy students maintain a branch of the Young Men's Christian Association, which holds a weekly prayer-meeting on Tuesday evenings.

EXPENSES.

EAST HALL.

	Per Annum.
Tuition, Board, Furnished Room, Heat, Light, Care, Washing and Incidentals	$245 00

MAIN HALL.

Tuition, Board, Unfurnished Room, Heat, Washing, and Incidentals	205 00
Tuition and Incidentals to day pupils	65 00

All charges are payable to the Registrar of the University in advance, at the beginning of each term, that is, by the 25th of September, 10th of January, and 10th of April.

No student is entitled to his place in his class until he has made settlement for the term bills.

An extra charge will be made for washing more than twelve pieces per week.

Students who remain in the Academy during the holiday or spring vacation will be charged at the rate of $4.50 per week. Table boarders will be charged the regular rate, $3.00 per week.

Free scholarships covering tuition are provided in all the departments of the University for the children of Ministers of the Gospel *in actual service.* Tuition is rated at $36 a year.

The expenses for Music and Printing for Exhibitions and Anniversary occasions are paid by the classes for which such expenses are incurred.

For information respecting the Academy, address the President of the University, or the Principal, Benjamin F. Thomas, A. M.

THE INSTITUTE.

INSTRUCTORS AND OTHER OFFICERS.

JOHN HOWARD HARRIS, PH. D., LL. D.,
PRESIDENT OF THE UNIVERSITY.

THOMAS A. EDWARDS, A. M.,
DEAN OF THE DEPARTMENT FOR WOMEN,
INSTRUCTOR IN PSYCHOLOGY AND ETHICS.

ELYSEE AVIRAGNET, A. M., MUS. DOC.,
VOCAL AND INSTRUMENTAL MUSIC AND THE ROMANCE LANGUAGES.

EMMA LOUISE BUSH, A. B,. PRECEPTRESS,
TEACHER OF GERMAN.

JULIET AIKIN,
TEACHER OF INSTRUMENTAL MUSIC.

CANDACE WOOD,
TEACHER OF ART.

GRACE SLIFER, A. M.,
TEACHER OF LATIN AND HISTORY.

MARY ANN HURSH UNGER, A. B.,
TEACHER OF ENGLISH.

EDITH SCHILLINGER,
TEACHER OF ELOCUTION AND GYMNASTICS.

MAUDE CHAPMAN BLACKMER,
TEACHER OF VOCAL MUSIC.

PEARL LEIGH CARLETON,
TEACHER OF INSTRUMENTAL MUSIC.

EDITH J. METCALF,
TEACHER OF INSTRUMENTAL MUSIC.

MARTIN LINNAEUS DRUM, PH. B.,
TEACHER OF MATHEMATICS.

WILLIS EDGAR MANEVAL, SC. M.,
TEACHER OF SCIENCE.

WILHELMINA M. DARLINGTON,
TEACHER OF ART.

WILLIAM CHRISTIAN GRETZINGER, A.M.,
REGISTRAR.

DIRECTORY OF THE ALUMNAE.

OFFICERS OF THE ALUMNÆ.

President, Mrs. George Smedley Matlack.
Vice-President, Mrs. T. F. Hamblin.
Recording Secretary, Mrs. Frank M. Simpson.
Corresponding Secretary, Miss Mary McLaughlin.
Treasurer, Miss Ella Bender.
Board of Managers,
The Officers of the Association, and Mrs. Calvin A. Hare, Mrs. Elisha Shorkley.

OFFICERS OF THE LEWISBURG ALUMNÆ CLUB.

President, Miss Elizabeth Tower Bates.
Vice-President, Miss Emma Eeg.
Secretary, Mrs. William C. Gretzinger,
Treasurer, Mrs. Weber L. Gerhart.
Corresponding Secretary, Miss Anna Van Gundy.

OFFICERS OF THE PHILADELPHIA ALUMNÆ CLUB.

President, Mrs. Ira C. Leedom.
Vice-Presidents, Mrs. Daniel Sutter, Mrs. I. H. O'Hara.
Recording Secretary, Mrs. John Lynch.
Corresponding Secretary, Mrs. Amos Wakelin.
200 Bullitt Building, Philadelphia.
Treasurer, Mrs. Dewey A. Cobb,
648 N. Fifty-sixth Street, Philadelphia.

The Dean of the Department of Women will esteem it a favor if any graduate who changes her residence will give notice of her new address. He will also be grateful for any information that will assist in making the directory of the graduates and former students complete.

GRADUATES, CLASS OF 1904.

NAME.	RESIDENCE.
Irene Emma Barton,	Torresdale
Josephine Brown,	Allenwood
Helen Irene Cooke,	Denver, Colorado
Lillian Katherine Gregory,	Luthersburg
Edith Sarah L. McNinch,	Lewisburg
Nina Adamsen Plian,	Bangkok, Siam
Mary Georgiana Stanton,	Chinchilla

NAMES OF STUDENTS.

GRADUATE STUDENTS.

NAME.	RESIDENCE.	ROOM.
Sarah Ethel Judd,	*Lewisburg.*	University Avenue
Margaret Groff,	*Lewisburg.*	Lewisburg
Ethel Mae Flanagin,	*Tuckahoe, N. J.*	Lewisburg
Marie Stein,	*Lewisburg.*	Lewisburg
Irene Barton,	*Philadelphia.*	Women's College

THE SENIOR CLASS.

Elizabeth Baker,	*Lewisburg.*	Market Street
Julia Parthenia Brown,	*Rochester.*	Institute
Mary Gudekunst Brown,	*Allenwood.*	Allenwood
Mary Eleanor Halfpenny,	*Lewisburg.*	River Street
Katharine Halfpenny,	*Lewisburg.*	South First Street
Nellie Florence Hood,	*Lewisburg.*	South Second Street

NAME.	RESIDENCE.	ROOM.
Laura Sharp,	*Philadelphia.*	Institute
Margaret Maria Stoughton,	*Lewisburg.*	Market Street
Dorothy Walls,	*Lewisburg.*	South Third Street
Jeanette Keen Wolfe,	*Lewisburg.*	St. George Street

THE FOURTH YEAR CLASS.

Katharine Beckley,	*Lewisburg.*	South First Street
Mary Matilda Brown,	*Lewisburg.*	Lewisburg
Lucile Marie Cooke,	*Denver, Col.*	Institute
Charlotte Hulley,	*Lewisburg.*	South Fourth Street
Katharine Holzer Sanner,	*Frackville.*	Institute
Louise Essick Savidge,	*Sunbury.*	Sunbury
Mary Emma Snyder,	*Winfield.*	Winfield
Beatrice P. Weill,	*Lancaster.*	Institute
Amelia Margaret Wensel,	*Lewisburg.*	South Sixth Street

THE THIRD YEAR CLASS.

Harriet Kremer Bower,	*Lewisburg.*	South Sixth Street
Ruth Young Chapin,	*Milton.*	Milton
Anna Glanvinia Follmer,	*Milton.*	Milton
Frances Groff,	*Lewisburg.*	Lewisburg

NAME.	RESIDENCE.	ROOM.
HELEN HARE,	*Lewisburg.*	University Avenue
ANNA GASKELL HASTINGS,	*Milton.*	Milton
EMILY HEATON,	*Milton.*	Milton
MARY HEATON,	*Milton.*	Milton
HELEN LEONARD,	*Ansonville.*	Institute
ETHYL DOUGLASS OVERHOLT,	*Scottdale.*	Institute
MILDRED JESSIE SCHAEFFER,	*Lewisburg.*	South Second Street
FLORENCE ELIZABETH SHIMER,	*Milton.*	Milton
MIRIAM CATHERINE SHIMER,	*Milton.*	Milton
ANNA ESTHER SHULTZ,	*Lewisburg.*	North Third Street

THE SECOND YEAR CLASS.

F. CLAIRE BAILLIE,	*Millersburg.*	Institute
JOSEPHINE BASSETT,	*Lewisburg.*	Lewisburg
LUCILLE FINLEY,	*Georgetown, Ky.*	Institute
LILLIE FROMHAGEN,	*Philadelphia.*	Institute
CHARLOTTE MAY HAWK,	*Tower City.*	Institute
JESSIE HUGUS,	*Pleasant Unity.*	Institute
JUANITA M. HUSBAND,	*Mt. Pleasant.*	Institute
RAISSA KAMENSKY,	*Clearwater, Fla.*	Institute
MARY A. KLINE,	*Snyderstown.*	Snyderstown

NAME.	RESIDENCE.	ROOM.
Jessie E. Kremer,	*Lewisburg.*	North Third Street
Carrie M. Miller,	*Scottdale.*	Institute
Helen Abagail Overholt,	*Scottdale.*	Institute
Martha Schoch,	*Hummel's Wharf.*	Hummel's Wharf
Carol Frances Spratt,	*Lewisburg.*	North Third Street
Marguerite Watrous,	*New York City.*	North Third Street

THE FIRST YEAR CLASS.

Anna Kaler Dreisbach,	*Lewisburg.*	South Third Street
Beatrice Evans,	*Freeland.*	Institute
Ernestine S. Hyatt,	*Lewisburg.*	North First Street

PURSUING SELECT STUDIES.

Elizabeth Irene Barber,	*Bridgeport.*	Institute
Emma Cordelia Bennett,	*Winfield.*	Winfield
Susan Rebecca Biehl,	*Lochiel.*	Lochiel
Nellie Woods Bowman,	*McKeesport.*	Institute
Rachel Alice Brookbank,	*Driftwood.*	Institute
Nellie Louise Brown,	*Cedar Ledge.*	Institute
Sadie Emerson Burgess,	*Sadieville, Ky.*	Institute
Bina Mae Carr,	*Northeast.*	Institute
Fanny Derr,	*Lewisburg.*	Lewisburg

NAME.	RESIDENCE.	ROOM.
Margaret Pollock Dougal,	*Milton.*	Milton
Edna Luella Downing,	*Muncy.*	Institute
Daisy Z. Dunkelberger,	*Trevorton.*	North Second Street
Helen I. Farley,	*Milton.*	Milton
Nancy Hall Finley,	*Georgetown, Ky.*	Institute
Amber M. Frick,	*Milton.*	Milton
Mary Jane Fritz,	*Trevorton.*	North Second Street
Louisa May Gardner,	*Sunbury.*	Sunbury
Carrie Geist,	*Ashland.*	Institute
Fannie May Getz,	*Lewisburg.*	Lewisburg
Flora Gruver,	*Howard.*	Institute
Nina Krauser Hackenburg,	*Milton.*	Milton
Dora Regina Hamler,	*Lewisburg.*	Lewisburg
Edith Halfpenny,	*Milton.*	Milton
Irene Humphreys,	*Curwensville.*	Institute
Anna Ethel Johnson,	*Gordon.*	Institute
Edith Mae Kunkel,	*Bucknell.*	Bucknell
Mary Elizabeth Lee,	*Orwigsburg.*	Institute
Fannie Drue Logan,	*Sunbury.*	Sunbury
Ida Mae Maine,	*Dimock.*	Institute
Mabel G. Maurer,	*New Berlin.*	Bucknell

NAME.	RESIDENCE.	ROOM.
Isabel M. Montgomery,	*Lewisburg.*	Lewisburg
Effa Savage,	*Sunbury.*	Sunbury
Clara Kauffman Schaeffer,	*Fleetwood.*	Institute
Lenora May Shamp,	*Lewisburg.*	Lewisburg
Kathryn Snyder,	*Lewisburg.*	Lewisburg
Alvira Stahl,	*Mazeppa.*	Mazeppa
Jessie Florence Swartz,	*Altoona.*	Institute
Fannie Alice Wagner,	*Montandon.*	Montandon
Mary E. Wallize,	*Watsontown.*	Watsontown
Margaret C. Wolfe,	*Montandon.*	Montandon
Lucy Wolfe,	*Montandon.*	Montandon
Sadie Wolverton,	*Shamokin.*	Institute

SUMMARY.

Graduate Students	5
Senior Class	10
Fourth Year Class	9
Third Year Class	14
Second Year Class	15
First Year Class	3
Pursuing Select Studies	42
Total	98

COURSES OF STUDY.

The Bucknell Institute offers to young women three courses of study, each extending over five years. Students are admitted to advanced standing, if upon examination they are found to have satisfactory knowledge of the branches which the class they propose to enter has already completed.

Credentials from Graded Schools are accepted in the studies of the First and Second Years.

Credentials are accepted for the Third and Fourth Years from schools whose curricula are equivalent to that of Bucknell Institute; also from accredited private teachers, in studies which are *continued* after entrance.

I. THE LITERARY COURSE.

The Literary Course embraces, in MATHEMATICS, Arithmetic, common and advanced, Algebra and Geometry, plane and solid, and Higher Algebra with Trigonometry and Analytical Geometry as electives; in LATIN, two years *required,* and a third year elective with German or French; in GERMAN and FRENCH, one year each or two of either; and in ITALIAN and SPANISH, an optional course; in SCIENCE, Physical Geography, Botany, Astronomy, Physics, Physiology, Chemistry, and Geology. In these branches the students have the advantages afforded by the College Observatory, Laboratory, and Museum. The course also includes Rhetoric, Composition, Civil Government, Psychology, Ethics, and History of Art.

Special attention is given to History and Literature, to the former of which six and to the latter of which three terms are devoted.

Graduates of the Institute in the Literary Course, upon the completion of eighteen courses of additional work in the College of Liberal Arts, may receive the degree of Bachelor of Letters.

II. THE CLASSICAL COURSE.

The Classical Course embraces in MATHEMATICS, Arithmetic, Algebra, Geometry, plane and solid, University Algebra, Trigonometry and Analytical Geometry; in LATIN, Grammar and Composition, Cæsar, Vergil, Cicero's Orations, Ovid, Cicero de Senectute et de Amicitia, Livy, and Velleius, in all, five years; in GREEK,

Grammar and Composition, Xenophon's Anabasis, Homer's Iliad, Lysias' Orations, Plato's Apology, Homer's Odyssey, and the Greek Testament, in all three years; in HISTORY, General History, and Greek and Roman History.

Students who complete the Classical Course are admitted to the Sophomore Class in College as candidates for the first degree in Arts.

III. THE LATIN SCIENTIFIC COURSE.

The Latin Scientific Course corresponds to the Classical course, except that scientific subjects are substituted for the first two years of Greek, and German for the third year of Greek.

Students who complete the Latin Scientific course are admitted to the Sophomore Class in College as candidates for the first degree in Philosophy.

Students in the fifth year Classical or Latin Scientific course recite to the professors in the College.

SELECT STUDIES.

Students who do not wish to pursue a course of study may elect such subjects in connection with the recitations of the regular classes as they may be qualified to pursue.

REQUIREMENTS FOR ADMISSION.

The required age for admission to the first-year class or to pursue select studies is twelve years, and a proportionate increase of age for admission to advanced classes.

CURRICULA.

Arabic numerals indicate the number of recitations a week in each subject.

I. THE LITERARY COURSE.

FIRST YEAR.

I. Term—	Algebra, 5,	English, 4,
	Latin, 5,	Bible, 1.
	History, 5,	
II. Term—	Algebra, 5,	English, 4,
	Latin, 5,	Bible, 1.
	Drawing, 5,	
III. Term—	Geometry, 5,	English, 4,
	Latin, 5,	Bible, 1.
	History, 5,	

SECOND YEAR.

I. Term—	Higher Arithmetic, 5,	Rhetoric, 4,
	Cæsar, Introduction, 5,	Bible, 1.
	Greek History, 5,	
II. Term—		
	Book-keeping,	Roman History, 5,
	Commercial Arithmetic, 5,	Literature, 4,
	Cæsar, 5,	Bible, 1.
III. Term—	Physical Geography, 5,	Literature, 4,
	Cæsar, 5,	Bible, 1.
	U. S. History, Advanced, 5,	

THIRD YEAR.

I. Term—Algebra, 5,
Cæsar, 5,
German, 5, *or*
History of England, 5,
Elocution, 4,
Bible, 1.

II. Term—Algebra, 5,
Cicero, 5,
German, 5, *or*
Chemistry, 5, *or*
Civics, 5,
Literature, 4,
Bible, 1.

III. Term—Algebra, 5,
Cicero, 5,
German, 5, *or*
Botany, 5,
Literature, 4,
Bible, 1.

FOURTH YEAR.

I. Term—Geometry, 5,
Vergil, 5,
Cicero, 5,
German, 5, *or*
Physiology, 5.

II. Term—Geometry, 5,
Vergil, 5,
{ Cicero, / Ovid, } 5,
German, 5, *or*
Astronomy, 5.

III. Term—Physics, 5,
Vergil, 5,
German, 5, *or*
Geology, 5,
Solid Geometry, 5.

SENIOR YEAR.

I. Term—Psychology,
English Literature,
French, *or*
German, *or*
{ Solid Geometry, / Higher Algebra,
Bible,
Composition,
Elocution.

II. Term—English Literature, Bible,
History of Art, *or* Composition,
French, *or* Elocution,
German, *or* Physical Culture.
Trigonometry,

III. Term—Ethics, Bible,
American Literature, Composition,
French, *or* Elocution.
German, *or*
Analytical Geometry,

II. THE CLASSICAL COURSE.

FIRST YEAR.

I. Term—Algebra, 5, English, 4,
Latin, 5, Bible, 1.
History, 5,

II. Term—Algebra, 5, English, 4,
Latin, 5, Bible, 1.
Drawing, 5,

III. Term—Geometry, 5, English, 4,
Latin, 5, Bible, 1.
History, 5,

SECOND YEAR.

I. Term—Higher Arithmetic, 5, Rhetoric, 4,
Cæsar, Introduction, 5, Bible, 1.
Greek History, 5,

II. Term—
{ Book-keeping, Roman History, 5,
{ Commercial Arithmetic, 5, Literature, 4,
Cæsar, 5, Bible, 1.

III. Term—Physical Geography, 5, Literature, 4,
Cæsar, 5, Bible, 1.
U. S. History, Advanced, 5,

THIRD YEAR.

I. Term—Geometry, 5, Elocution, 4,
Cæsar, 5, Bible, 1.
Greek, 5,

II. Term—Algebra, 5, Literature, 4,
Cicero, 5, Bible, 1.
Greek, Anabasis, 5,

III. Term—Algebra, 5, Literature, 4,
Cicero, 5, Bible, 1.
Greek, Anabasis, 5,

FOURTH YEAR.

I. Term—Geometry, 5, Cicero, 5,
Vergil, 5, Greek, Anabasis, 5.

II. Term—Geometry, 5, { Cicero, / Ovid, } 5,
Vergil, 5, Iliad, 5.

III. Term—Physics, 5, Iliad, 5,
Vergil, 5, Anabasis, 5.

SENIOR YEAR.

I. Term—

{ Geometry, / Algebra, 5, } Rhetoric, 1,
Elocution, 1.
Cicero de Senectute, 5,
{ Odyssey, / Greek Prose Composition, 5, }

II. Term—

{ Trigonometry, / Algebra, 5, } Rhetoric, 1,
Elocution, 1.
Livy, 5, Physical Culture.
{ Lysias, / Greek Testament, 5, }

III. Term—

Analytical Geometry, 5,
Velleius and Pliny, 5,
{ Plato,
{ Greek Testament, 5,

Rhetoric, 1,
Elocution, 1.

III. THE LATIN SCIENTIFIC COURSE.

FIRST YEAR.

I. Term—Algebra, 5,
Latin, 5,
History, 5,

English, 4,
Bible, 1.

II. Term—Algebra, 5,
Latin, 5,
Drawing, 5,

English, 4,
Bible, 1.

III. Term—Geometry, 5,
Latin, 5,
History, 5,

English, 4,
Bible, 1.

SECOND YEAR.

I. Term—Higher Arithmetic, 5,
Cæsar, Introduction, 5,
Greek History, 5,

Rhetoric, 4,
Bible, 1.

II. Term—

{ Book-keeping,
{ Commercial Arithmetic, 5,
Cæsar, 5,

Roman History, 5,
Literature, 4,
Bible, 1.

III. Term—Physical Geography, 5,
Cæsar, 5,
U. S. History, Advanced, 5,

Literature, 4,
Bible, 1.

THIRD YEAR.

I. Term—Algebra, 5,
Cæsar, 5,
German, 5, *or*
History of England, 5,

Elocution, 4,
Bible, 1.

II. Term—Algebra, 5,
Cicero, 5,
German, 5, *or*
Chemistry, 5, *or*
Civics, 5,

Literature, 4,
Bible, 1.

III. Term—Algebra, 5,
Cicero, 5,
German, 5, *or*
Botany, 5,

Literature, 4,
Bible, 1.

FOURTH YEAR.

I. Term—Geometry, 5,
Vergil, 5,
Cicero, 5,

German, 5, *or*
Physiology, 5.

II. Term—Geometry, 5,
Vergil, 5,
{ Cicero, } 5,
{ Ovid, }

German, 5, *or*
Astronomy, 5.

III. Term—Physics, 5,
Vergil, 5,

German, 5, *or*
Geology, 5,
Solid Geometry, 5.

SENIOR YEAR.

I. Term—
{ Algebra,
{ Geometry, 5,
Cicero de Senectute, 5,
German, 5,

Rhetoric, 1,
Elocution, 1.

II. Term—
{ Trigonometry,
{ Algebra, 5,
Livy, 5,
German, 5,

Rhetoric, 1,
Elocution, 1.

III. Term—Analytical Geometry, 5,
Velleius and Pliny, 5,
French, 5,

Rhetoric, 1,
Elocution, 1.

METHODS OF INSTRUCTION.

I. PSYCHOLOGY AND ETHICS.

Psychology is taught by text-book and informal lectures. The relation of Psychology to education is made a special feature of the course.

The aim in the Course in Ethics is to make the instruction as practical as possible. Theses on problems in Ethics are required of each student taking the subject, in addition to recitations from text-books.

II. LITERATURE AND ART.

LITERATURE is taught by topical outlines, the elaboration of which depends upon a sympathetic study of the masterpieces in connection with the lives and times of the writers. The subject is so presented that a vital experience results rather than an empty form of knowledge. The object of the course is to cultivate and ennoble the emotions, to stimulate the imagination, and to reinforce the will with strong and exalted motives.

THE HISTORY OF ART is offered in the Senior Year, Literary Course. The aim of the course is to give a general knowledge of the development of art and lead to an acquaintance with individual artists and their work. Some attention is given to the theories concerning the origin of the art-impulse itself, and the law of the mental evolution which has governed the history of art.

III. HISTORY.

History. Six terms are devoted to this study. The course embraces General History, the History of the United States, of England, of Greece, and of Rome. Efforts are made to convince the learner that History is not mere facts in chronological order, but a record of the development of civilization.

Civil Government. The origin and growth of our institutions, the functions of the various departments of the National, State and local governments; the political history of the people; the interpretation and construction of the Constitution, are discussed.

IV. THE ENGLISH LANGUAGE.

English Grammar. The aim is to train the pupils to speak and write the English language with accuracy and force.

Rhetoric is taught as a practical aid to English Composition. Daily exercises in composition are required.

English Composition is required throughout the course. Classes in Composition meet weekly for general criticism and the assignment of work. One essay is required from each student monthly, and an exercise in rapid and concise writing is required weekly.

V. THE LATIN LANGUAGE.

Paradigms of Declension and Conjugation with the Principles of Syntax, are introduced gradually, after many illustrations. English sentences are translated into Latin, readiness in Latin Composition and a correct style being thus acquired.

The following courses are offered: 1. Latin Grammar and Lessons; 2. Eutropius; 3. Cæsar, Gallic War; 4. Vergil, Æneid; 5. Cicero, Orations; 6. Ovid; 7. Cicero, *De Senectute*, and Livy; 8. Livy, Books XXI and XXII; 9. Velleius and Pliny.

VI. THE GREEK LANGUAGE.

The first half of the Third Year is spent in acquiring sufficient knowledge of forms and inflections to commence the study of Xenophon's Anabasis. During the last half year, special attention is given to the inflection and syntax of nouns, pronouns, and adjectives. The reading of Xenophon is continued in the first term of the Fourth Year, and the forms and syntax of verbs made a special study. Homer is then read for one term and a half, and the difference between Homeric and Attic forms is noted. During the last half term Xenophon is reviewed, that the student may refresh her knowledge of Attic Greek, and may not find her transition to College needlessly difficult. Almost daily drill is given in turning into Greek, sentences based on the text of Xenophon.

The following courses in Greek are offered to students in the Classical Course: 1. Greek Lessons; 2. Xenophon's Anabasis; 3. Homer's Iliad; 4 Lysias' Orations; 5. Homer's Odyssey; 6. Plato's Apology; 7. Greek New Testament.

VII. MODERN LANGUAGES.

1. **French, Italian, and Spanish.** The modern languages are taught by comparing them with the mother tongue of the pupil, if there be any relation between them. If there is none, they are compared with the Latin and Greek languages. In French, rules are taught by which the words that are not exactly the same in the two languages are easily made into French.

French Syntax is taught by examples and illustrations from readings. The grammar is taught from the Language, and not the language from the grammar. Dictation exercises are given from Whitney's Practical French.

As far as practical only French is spoken in the class room. Extracts are read from the best French literature. Conversations are held in French on the readings, stories are related, and compositions prepared in French by the pupil.

The aim is to teach the modern languages so that they can be spoken correctly.

The same method is used in teaching Spanish and Italian.

2. **German.** In the study of German the aim is to get a knowledge of the language in an all-round way. This is accomplished not alone through the study of grammar and the translation of German into English, but by daily practice in conversation, the committing to memory of poems and idioms, and through an acquaintance with biography and the different phases of German life. As little English as practicable is used in the class-room. Throughout the course there is constant sight reading, translation at hearing, and translation from English into German.

The reading of the second year includes the best German authors studied in connection with Keller's History of German Literature.

VII. MATHEMATICS.

Arithmetic. Two objects are considered in teaching the subject; first, to give the student a practical knowledge of all ordinary business problems and calculations; second, to develop her ability to think logically and rapidly. The memorizing of rules and mechanical processes is not required, but independent thought, logical analysis and neatness, clearness and accuracy in all written work are demanded. A drill in Mental Arithmetic is combined with the required work of the text-book.

Elements of Algebra. Three terms are given to this subject. There is thorough drill in the fundamental operations, and the idea that these are simply the applications of arithmetical processes to symbols of general value is kept constantly in mind. The course includes Quadratic Equations, Theory of Exponents, Variations, and series.

Geometry. The course includes Plane and Solid Geometry. Besides the demonstrations of Theorems given in the text-book, original demonstrations and the solution of problems are required.

Higher Algebra. The topics discussed are: Progressions, Theory of Limits, Differentiation, Development of Functions into Series, Convergency and Summation of Series, Logarithms, Compound Interest and Annuities, Permutations and Combinations, Probability, Continued Fractions, and the Theory of Equations.

Trigonometry. The course includes Plane and Spherical Trigonometry. Time is given to the numerical illustration of principles for the purpose of making sure that the meaning and use of formulæ, demonstrated and learned, are thoroughly understood.

Analytical Geometry. The student is taught the elementary properties of the right line and the conic sections. The course is intended to give a clear conception of the methods of Cartesian Analysis, rather than an extensive knowledge of its results.

IX. SCIENCE.

Physics. The student is thoroughly grounded in the elements of mechanics and physics. The historical beginnings of each subject, and subsequent developments, are sketched in brief lectures. No pains are spared to familiarize the pupil with the laws of these sciences by instruction, experiment, review, and repeated examination. The truth of principles is proved, except where the demonstration involves the higher mathematics. The apparatus of the College is available for class use.

Astronomy. Descriptive Astronomy discusses the earth's relation to the solar system; the masses, motions, and orbits of each member; the causes and consequences of the motions of the earth; general boundaries of the constellation of the Zodiac and Northern Heavens; the accepted theories of comets, meteors, and nebulæ. Charts, star maps, globes, and other apparatus are used, and the student is afforded privileges of observation in the College Observatory.

Physical Geography lays a broad foundation for subsequent work in all sciences. Special attention is given to the physical features of the United States. Drawings, photographs, colored and relief maps, and specimens from the Museum, and field work, aid to make the subject clear.

Geology. The student is required to master the elements of lithographical, structural, dynamic, and historical Geology. Specimens of various rocks and minerals are handled in class; their composition, characteristics, and place in nature are explained; the structure of the earth in its present form is studied; the history of its evolution, the age and characteristics of its strata, the chief geological features of each continent, and the forces at work are considered.

Botany is taught by text-book and field work. A brief outline is first obtained of plant structure, physiology, growth, and reproduction. Lectures explaining special forms of vegetable growth, and the flora of this country, complete the work.

Physiology. Every effort is made to impart clear ideas of the structure, parts, and functions of the human body. Special attention is given to the chemistry of foods, the laws of health, and the effects of stimulants and narcotics. Suggestions are also made as to poisons and their antidotes, the care of the sick, disinfection and sanitation, and accidents and emergencies. The subject is illustrated by the use of a manikin, charts, and preparations.

Descriptive Chemistry is taught by text-books, lectures, and experiments. The object of the course is to give the student a general knowledge of the common elements, their sources, uses, compounds, and behavior towards other elements and compounds, and to drill the student in writing formulæ and solving chemical equations. To accomplish this, each student will be expected to spend at least five hours each week in the Laboratory, studying the characteristics and reactions of the elements and their compounds, and performing the experiments outlined in the text and lectures. Notes will be kept by each student, describing the experiment and giving the equation which represents the reaction taking place.

PHYSICAL CULTURE.

The health of the students is made a prime object of attention, and sanitary requirements are carefully observed. The Institute Gymnasium is furnished with Indian clubs, dumb bells, wands,

rings, hoops, guns, wall pulleys, parallel bars, etc., and classes in Physical Culture are organized for the benefit of all students. The exercises practiced are such as tend to develop grace and strength. The Institute Campus of six acres furnishes facilities for exercises. Lawn Tennis and other outdoor games are encouraged, and exercise in the open air is required.

ÆSTHETIC CULTURE.

It is intended that the pupils of the Institute shall have the influence unconsciously received from painting, music, and refined surroundings, as well as direct instruction in Literature, Music, and Art. Special instruction in Music and Art is given in the schools devoted to those subjects.

SOCIAL CULTURE.

Pupils are trained to observe the usages of good society. Meetings of various organizations for improvement in Literature, Music, and Art, and receptions in charge of the pupils add variety to student life. No effort is spared to give the pupils the advantages of a cultured home. The purpose is to develop the social life of the Institution within itself. Students are not permitted, during term-time, to visit in neighboring towns. The number of social functions during the term is limited, and the consent of the Dean must be obtained for each function at least one month before it is to occur.

RELIGIOUS TRAINING.

The Institute is distinctly Christian in its influence. Morning and evening Chapel in the Hall of the Institute building is attended by all students in the Institute courses, special students, and women pursuing studies in the School of Music. College women living in the Institute attend evening Chapel.

Attendance upon Sabbath-school and church services in town is required. All students have weekly recitations in Inductive Bible Study. The students have organized several classes for Scripture study.

The Young Women's Christian Association, a voluntary society open to the officers and students of the Institute, meets

weekly. The regular Tuesday evening prayer-meeting, missionary and temperance work, special Bible Classes and College Settlement work are in charge of this Association.

SPECIAL BRANCHES.

1. Italian and Spanish may be taken up as optional studies, under the instruction of M. Elysée Aviragnet.

All optional studies must be pursued in connection with the regular classes.

2. Bible instruction is given once a week throughout the entire course.

3. Essays are required of all students each month, and themes each week.

4. Two declamations are required of each student during each term.

5. Exercises in either Elocution or Reading are required once a week of all classes.

PUBLIC EXERCISES.

THE EXERCISES OF THE GRADUATING CLASS.

The Commencement Exercises of the Institute are held in the College Commencement Hall on Tuesday afternoon of Commencement week.

THE EXERCISES OF THE FOURTH YEAR CLASS.

The exercises of the Fourth Year Class, a combined musical and literary entertainment, are held in the Chapel of the Institute on the last Saturday evening in the month of April.

THE CONTEST IN ELOCUTION.

A contest in Elocution for the prize in that subject, open to all the members of the Institute, takes place in Bucknell Hall on the second Saturday evening in the month of May.

ALUMNÆ SOCIETIES.

The Alumnæ Association holds its anniversary on Monday afternoon of Commencement week.

The Lewisburg Alumnæ Club meets at the Institute on the second Tuesday of each month during term-time.

The Philadelphia Alumnæ Club is composed of graduates living in and near that city.

STUDENTS' LOAN SOCIETY OF BUCKNELL INSTITUTE.

In June, 1887, there was organized in connection with Bucknell Institute an association for the purpose of assisting young women of limited means to obtain an education. A fund was established by gifts from the Alumnæ and friends of the Institute. The money is loaned to beneficiaries, who obligate themselves to return it, *without interest,* as soon after their graduation as they may be able.

Before the organization of this Society, many promising students at Bucknell Institute were unable to finish the course of study because there was no provision for financial assistance.

Since 1887, but for the help of this Association, some of the best of our graduates would have been deprived of the training which has fitted them for the positions they now fill as teachers, authors, missionaries, and pastors' helpers.

During the first decade, twenty-four young ladies received aid. More than one-half of these have returned the loan in full.

The Society meets in the parlors of the Institute on the first Wednesday afternoon after the opening of each term, at half-past two o'clock.

The annual meeting for the election of officers is held at the Institute on the first Wednesday after the opening of the winter term.

The payment of one hundred dollars constitutes the donor a Life Member of the Association; five dollars annually, an Active Member.

Contributions should be sent to the Treasurer, Mrs. T. H. Purdy, Sunbury, Pa. Any information will be given by the President, Mrs. Katharine B. Larison, Cochecton Centre, N. Y., or Mrs. John T. Judd, Corresponding Secretary, Lewisburg, Pa.

DEPARTMENT OF ELOCUTION.

Miss Edith Schillinger.

This department is open to all members of the Institute. Its aim is the correct and effective utterance of thought. Special attention is given to Voice Culture, Articulation, including Pronunciation and Expression. Weekly Rhetoricals afford opportunity for platform work. Bible Reading and the study of Shakspere have places in the course. Special courses are offered to students who wish to take private lessons in elocution. Particular attention is given to curing persons of stammering and other defects in speech.

SPECIAL STUDENTS IN ELOCUTION.

NAME.	RESIDENCE.	ROOM.
Elizabeth Baker,	*Lewisburg.*	Market Street
Irene Emma Barton,	*Torresdale.*	Institute
Nellie Louise Brown,	*Cedar Ledge.*	Institute
Sadie Emerson Burgess,	*Sadieville, Ky.*	Institute
Ruth Chapin,	*Milton.*	Milton
Mary Crumbling,	*Lewisburg.*	Lewisburg
Fanny Derr,	*Lewisburg.*	Market Street
Helen I. Farley,	*Milton.*	Milton
Nancy Hall Finley,	*Sadieville, Ky.*	Institute
Sevilla R. Hauck,	*Lewisburg.*	South Fourth Street
Mary Heaton,	*Milton.*	Milton
Emily Heaton,	*Milton.*	Milton

NAME.	RESIDENCE.	ROOM.
Mary Elizabeth Lee,	*Orwigsburg.*	Institute
Jennie MacLaggan,	*Lewisburg.*	South Third Street
Ethyl Douglass Overholt,	*Scottdale.*	Institute
Helen Abigail Overholt,	*Scottdale.*	Institute
Katherine Holzer Sanner,	*Frackville.*	Institute
Miriam Shimer,	*Milton.*	Milton
Florence Shimer,	*Milton.*	Milton
Katherine Snyder,	*Lewisburg.*	Market Street
Anna Stage,	*Clearfield.*	Institute
Marie Stein,	*Lewisburg.*	North Third Street
Lucy Wolfe,	*Montandon.*	Montandon

THE ART DEPARTMENT.

Miss Candace Wood.

Miss Wilhelmina Darlington.

The facilities for the study of Art have been greatly increased by the accommodations allotted to this Department, in a special studio, which provides such adjustments for admission of light, and unencumbered wall surface as to render it adapted for the execution and display of art production.

For such students as desire opportunity for work preparatory to professional study, and to those who wish to fit themselves to give systematic instruction in drawing, the following course is provided:

First Year. Drawing in Pencil, Charcoal, and Crayon from solid geometrical forms, and portions of the human figure, with the necessary elements of perspective, the Laws of Proportion, and the Relations of Light and Shade.

Second Year. Drawings from the Antique in Coal, Crayon, Sepia, or Oil Monochrome; Modeling in Clay or Wax. Study in Color from Draperies and Still Life.

Third Year. Composition, Color in Landscape, Pen and Ink Drawing, and Painting in Color from Nature and from Life.

On successful completion of this entire course, a certificate of proficiency will be awarded.

Students who do not desire the certificate course, and whose interest is in Decorative Work, will receive the requisite instruction in the latest methods—China Painting, Tapestry, Dyeing, and applied Design in other mediums and materials.

Charges for instruction in Art are as follows:

	Per Annum.
Drawing	$24.00
Crayoning	33.00
Painting in Oil, Water Colors, Pastel, or on China,	60.00
	Per Lesson.
Special individual instruction in Painting	$1.00

Freehand Drawing is a part of the required work of the school without extra charge.

ART EXHIBIT.

On Saturday, Monday, and Tuesday, of Commencement Week, a display of art products by the pupils of the School of Art is made in the Studio. At this time a committee of art students receives and entertains all those who visit the Studio.

STUDENTS IN ART.

NAME.	RESIDENCE.	ROOM.
Irene Emma Barton,	*Torresdale.*	Institute
Rachel Alice Brookbank,	*Driftwood.*	Institute
Elsie Green Datesman,	*Fremont, Ohio.*	Milton
Marguerite L. Duncan,	*Lewisburg.*	South Second Street
Ellen Wolfe Focht,	*Lewisburg.*	South Second Street
Amber M. Frick,	*Milton.*	Milton
Esther Belle Godcharles,	*Milton.*	Milton
Margaret Beaver Groff,	*Lewisburg.*	Lewisburg
Emily Heaton,	*Milton.*	Milton
Irene Humphreys,	*Curwensville.*	Institute
Sarah Ethel Judd,	*Lewisburg.*	University Avenue
Ida Mae Maine,	*Dimock.*	Institute
Helen Lera Ritter,	*Milton.*	Milton
Effa Savage,	*Sunbury.*	Sunbury
Miriam Catharine Shimer,	*Milton.*	Milton
Jessie Florence Swartz,	*Altoona.*	Institute
Dorothy Walls,	*Lewisburg.*	South Third Street

GENERAL INFORMATION.

ADVANTAGES.

The Bucknell Institute offers to young ladies superior educational advantages. Its location in a University town assures an atmosphere of study and the benefit of numerous literary exercises, lectures, and addresses. The students in the Institute have the use of the Library and apparatus of the Institute, and also of the College Astronomical Observatory, Chemical Laboratory, Museum, and Library, and the various apparatus of the University. An isolated school could not provide for itself these advantages at a cost of less than a quarter of a million dollars.

ADMINISTRATIVE AND OTHER REGULATIONS.

1. The general control of the Institute is vested in the President of the University.

2. The government of the Institute, subject to such control, rests with the Dean.

3. Young women attending the College or School of Music are subject to the rules and regulations governing young women attending the Institute.

RULES.

The laws governing the Institute are enacted by the Board of Trustees.

Any officer of the Institute becoming cognizant of violation of regulations by any pupil shall report the same to the Dean, who shall make a record of the fact in a book provided for the purpose. Any second violation by the same pupil shall be reported to the President of the University; and if, in the judgment of the President of the University and the Dean the offense be of sufficient gravity, the parent or guardian of the offending pupil shall be notified.

Violations of the regulations of the Institute or infraction of the laws of morality are punished by private reprimand, deprivation of privileges, or private withdrawal from the Institute.

The following are selections from the regulations:

1. No student is allowed to leave the Institute grounds at any time without permission from the Dean.

2. Unless for reasons very satisfactory, students from a distance are not permitted to visit their homes, or to leave the Institute to visit with relatives or friends in town. A student will not be permitted to spend the night with friends in town.

3. None but near relatives and friends from a distance are allowed to visit with boarding students, and such visits must be so arranged as not to interfere with the regular hours of study and recitation.

4. Students are not at liberty to invite guests to their private apartments, or to any part of the building, without permission from the Dean.

5. Teachers and students take their meals at the same table, and no special article of food is served to anyone, except in case of sickness.

6. Parents and guardians are particularly requested to refrain from furnishing their daughters and wards with *eatables of any kind,* except fruit.

7. Patrons visiting young ladies at the Institute may be accommodated with board at one dollar a day, if there are vacant rooms. In no case will students be required to give up their rooms to visitors. Visitors will conform to the general regulations of the Institute.

8. Regular and systematic exercise, both in the open air and in the Ladies' Gymnasium, is required of each student.

9. In the Regular course the number of daily recitations is fixed. Special students are required to engage in such a number of studies as may, in the judgment of the Dean, be sufficient to occupy their time.

10. The character of each recitation is recorded at the time, and the result, together with a statement of the general industry and deportment of the student, is sent to the parent or guardian at the close of the term.

11. The passing grade in any study is a definite one, and must be attained before promotion can be secured.

12. No room can be reserved for a student unless definitely engaged.

13. The books and current periodicals of the College and Institute Libraries are available to all students.

14. Articles Required.—Each student shall be provided with an umbrella, waterproof, overshoes, table napkins, towels, covers for bureau and washstand, counterpanes, sheets, and pillow-cases. The size of a pillow is twenty by thirty inches; of the bureau, forty-three by nineteen inches; of the washstand, thirty-two by sixteen inches.

Every article of clothing should be marked with the owner's name in full.

It is especially desired that the dress of pupils shall be simple and inexpensive. Whenever practicable, the wardrobes should be prepared at home, to avoid frequent visits to town.

A deposit of one dollar is made for washbowl and pitcher, which is refunded when articles are returned.

PRIZES.

I. BUCKNELL PRIZES.

The following prizes were founded by William Bucknell, of Philadelphia:

1. A First Senior Prize, to be awarded to the member of the graduating class, who, being excellent in scholarship during the Senior Year, shall prepare the best essay.

2. A Second Senior Prize, to be awarded to the member of the graduating class, who, being excellent in scholarship during the Senior Year, shall prepare the second best essay.

For the year 1904 the First Prize of twenty-four dollars was awarded to Josephine Brown, and the Second Prize of sixteen dollars to Mary Georgiana Stanton.

3. A Third Senior Prize to be awarded to the member of the graduating class who shall attain the highest grade in the studies of the Senior Year. This excludes all grades of studies not in the Senior Year, all Senior studies taken before the Senior Year, and all studies not taken in the Institute.

For the year 1904 this prize of twenty-five dollars was awarded to Mary Georgiana Stanton.

4. A First Fourth Year Prize, to be awarded to the member of the Fourth Year Class, who, being excellent in scholarship during the year, shall prepare the best Fourth Year essay.

5. A Second Fourth Year Prize, to be awarded to the member of the Fourth Year Class, who, being excellent in scholarship during the year, shall prepare the second best Fourth Year essay.

For the year 1904 these prizes were awarded as follows: Alice Elizabeth Raike received the First Prize of twenty dollars; Elizabeth Baker, the Second Prize of fifteen dollars.

The fund consists of $2,000, the income from which is to be devoted to these prizes annually in a manner more particularly defined in the donor's communication to the Trustees.

Themes for the Bucknell Essay Prizes will be drawn from the following works:

For 1905—Shakspere's Merchant of Venice; Scott's Lady of the Lake; Tennyson's Elaine and the Passing of Arthur; Macaulay's Essay on Milton.

For 1906—Shakspere's Julius Cæsar; Milton's L'Allegro, Il Penseroso, Comus, Lycidas; Scott's Marmion; Addison's Sir Roger de Coverly Papers.

II. THE ELOCUTION PRIZE.

A prize in Elocution is offered to the student who shall give the best recitation at the Annual Contest.

For 1904 the prize was awarded to Fanny Derr.

EXPENSES.

I. Boarding Students. The regular charge for Boarding Students is $245.00 per annum; the other expenses, spending money, books, and clothing, will vary with the individual student.

An additional charge will be made when one student occupies a double room alone in the Main Building. Extra charge will also be made for front corner rooms in the West Wing.

Students are charged extra for the washing of dresses, and for the washing of more than 12 pieces per week.

For the rooms in the Bucknell Cottage there is an extra charge, depending on the location.

Students will be charged for damage done to furniture or to the room they occupy.

II. Day Students. The charges for Day Students amount to $65.00 per annum.

III. Extra Studies. The charges for Elocution, Drawing and Painting, and Music will be found under those titles.

Bills are payable *strictly in advance,* on the 15th of September, January, and April.

Checks and drafts should be drawn in favor of the Registrar of the University.

No bill will be made out for a shorter period than one term; and no deductions will be made, except in the charge of board, in case of a prolonged absence on account of sickness.

The expenses for Music, Printing, and other charges ordinarily incurred at Examination and on anniversary occasions, are paid by the class or classes which incur the expenses.

The fee for Graduation and Diploma is $5.

Free scholarships, covering tuition, are awarded to children of Ministers of the Gospel *in actual service.*

For information respecting the Institute, address the Dean of the Department for Women, Thomas A. Edwards, A. M., or the President of the University.

BUCKNELL SCHOOL OF MUSIC.

ELYSSEE AVIRAGNET, A. M., MUS. DOC.,
DIRECTOR.

JULIET AIKIN,
PIANO AND HARMONY.

PEARL LEIGH CARLETON,
PIANO AND VIRGIL CLAVIER.

EDITH J. METCALF,
PIANO.

MAUDE CHAPMAN BLACKMER,
VOCAL.

RUTH ANGELINE BOTTORF,
INSTRUMENTAL MUSIC, PIPE ORGAN.

MAE MORGAN,
INSTRUMENTAL MUSIC.

GRADUATES, 1904.

NAME.	COURSE.	RESIDENCE.
PAULINE GRESS BERGER,	*Piano, Harmony.*	Watsontown
RUTH ANGELINE BOTTORF,	*Piano, Vocal, Harmony, Pipe Organ.*	Lemont
MINNIE LOUISE FESSENDEN,	*Piano, Harmony.*	Glen Iron
ETHEL MAE FLANAGIN,	*Piano, Harmony.*	Tuckahoe, N. J.
HARRIET MAY HOLLINGSHEAD,	*Piano, Harmony.*	Milton
MAE MORGAN,	*Piano, Harmony.*	Perth Amboy, N. J.
FLOSSIE EDITH PETHTEL,	*Voice, Harmony.*	New Freeport
MARGARET JOHNSON STUART,	*Piano, Harmony, Pipe Organ.*	State College

NAMES OF STUDENTS.

PIANO.

NAME.	RESIDENCE.
Elizabeth Irene Barber	Bridgeport
Josephine Bassett	Lewisburg
George Bender	Lewisburg
Emma Cordelia Bennett	Winfield
Susie Rebecca Biehl	Lewisburg
Frederick Blaser	Philadelphia
Harriet Kremer Bower	Lewisburg
Nellie Woods Bowman	McKeesport
Rachel Alice Brookbank	Driftwood
Nellie Louise Brown	Cedar Ledge
Alice May Clarkson	Williamstown
Alice Cooner	Watsontown
Molly Cooner	Watsontown
Edna Luella Downing	Muncy
Daisy Z. Dunkelberger	Trevorton
Gonzalo Espejo	Merida, Yucatan, Mex.
Helen I. Farley	Milton
Lucille Finley	Georgetown, Ky.
Ethel May Flanagin	Tuckahoe, N. J.
Anna Glauvinia Follmer	Milton
Amber M. Frick	Milton
Mary Jane Fritz	Trevorton
Lillie Fromhagen	Philadelphia
Louisa May Gardner	Sunbury
Carrie Geist	Ashland
Fannie May Getz	Lewisburg
Mabel Elizabeth Gleason	Canton
Margaret Christine Gretzinger	Lewisburg
Flora Gruver	Williamsport
Nina Krauser Hackenberg	Milton
Edith Halfpenny	Milton
Dora Regina Hamler	Lewisburg

NAME.	RESIDENCE.
George William Hawk	Tower City
David Jackson Hawk	Tower City
Charlotte May Hawk	Tower City
Florence Ida Hilliard	Montgomery
May Hollingshead	Milton
Irene Humphreys	Curwensville
Anna Ethel Johnson	Gordon
Rachel May Kunkle	Lewisburg
Mary Elizabeth Lee	Orwigsburg
Fannie Drue Logan	Sunbury
Mary Macredy	Camden, N. J.
Ida Mae Maine	Dimock
Mabel G. Maurer	New Berlin
Carrie M. Miller	Scottdale
Isabel M. Montgomery	Lewisburg
Helen Abigail Overholt	Scottdale
Ethyl Douglas Overholt	Staunton, Va.
Ursula Dawes Parmley	Mahanoy City
Casimir Perrier	Northampton, Mass.
Pauline Griggs Robbins	Lewisburg
Edwin Wilde Saylor	Philadelphia
Clara Kauffman Schaeffer	Fleetwood
Lenora May Shamp	Lewisburg
Alvira Stahl	Mazeppa
Mary Georgiana Stanton	Chinchilla
Ruth Stephens	Lewisburg
Ralph Llewellyn Thomas	Lewisburg
Helen Fulkerson Tiffany	Mt. Pleasant
Lucinda Elizabeth Trauger	Lycippus
Annie M. Tule	Montandon
Orienta Tola Thompson	Lewisburg
Fannie Alice Wagner	Montandon
Mary E. Wallize	Watsontown
Marguerite Watrous	Lewisburg
Beatrice P. Weill	Lancaster
Violetta Wolfe	Rebersburg
Missoura Wolfgang	Ashland
Sadie Wolverton	Shamokin
Frank Landis Yost	Lock Haven

VOICE.

NAME.	RESIDENCE.
Homer Hastings Adams	Grange
Cottie Gudila Albright	Lewisburg
Florence Louise Bacon	Canton
Elizabeth Irene Barber	Bridgeport
Mary Isabel Bower	Lewisburg
Nellie Woods Bowman	McKeesport
Fern Frick Braddock	Mt. Pleasant
Julia Parthenia Brown	Rochester
Rachel Alice Brookbank	Driftwood
Ernest Sabin Burrows	Picture Rocks
Daisy Z. Dunkelberger	Trevorton
Vera Ellice Duncan	Cross Fork
Annie Glauvinia Follmer	Milton
Sarah Cyrena Furman	Wellsboro
Edmund Roy Gardner	McKeesport
Carrie Geist	Ashland
Nina Krauser Hackenberg	Milton
Irene Humphrey	Curwensville
Anna Ethel Johnson	Gordon
Edith E. Lane	Ulysses
Fannie Drue Logan	Sunbury
Ida Mae Maine	Dimock
Clarence Ira Phillips	Turbotville
Katherine Holzer Sanner	Frackville
Clara Kauffman Schaeffer	Fleetwood
Edna Seaman	Allentown
Maude O. Sleep	Montandon
Frank Laton Stewart	Vandergrift
Margaret C. Wolfe	Montandon
Jessie Theresa Young	Lewisburg

PIPE ORGAN.

Elizabeth Irene Barber	Bridgeport
Rachel Alice Brookbank	Driftwood
Vera Ellice Duncan	Cross Fork
Mary Elizabeth Lee	Orwigsburg
Fannie Drue Logan	Sunbury
Orienta Tola Thompson	Lewisburg
Sadie Wolverton	Shamokin

HARMONY.

NAME.	RESIDENCE.
Cottie Gudila Albright	Lewisburg
Elizabeth Irene Barber	Bridgeport
Rachel Alice Brookbank	Driftwood
Mary Isabel Bower	Lewisburg
Edna Luella Downing	Muncy
Daisy Z. Dunkelberger	Trevorton
Amber M. Frick	Milton
Mary Jane Fritz	Trevorton
Fannie May Getz	Lewisburg
Nina Krauser Hackenberg	Milton
Edith Halfpenny	Milton
Anna Ethel Johnson	Gordon
Mary Elizabeth Lee	Orwigsburg
Fannie Drue Logan	Sunbury
Mabel Grace Maurer	New Berlin
Edwin Wilde Saylor	Philadelphia
Clara Kauffman Schaeffer	Fleetwood
Mary Georgiana Stanton	Chinchilla
Ruth Stephens	Lewisburg
Orienta Tola Thompson	Lewisburg
Elizabeth Lucinda Trauger	Lycippus
Annie M. Tule	Montandon
Sadie Wolverton	Shamokin

HISTORY OF MUSIC.

Cottie Gudila Albright	Lewisburg
Elizabeth Irene Barber	Bridgeport
Rachel Alice Brookbank	Driftwood
Mary Isabel Bower	Lewisburg
Edna Luella Downing	Muncy
Daisy Z. Dunkelberger	Trevorton
Amber M. Frick	Milton
Mary Jane Fritz	Trevorton
Fannie May Getz	Lewisburg
Nina Krauser Hackenberg	Milton
Edith Halfpenny	Milton
Anna Ethel Johnson	Gordon
Mary Elizabeth Lee	Orwigsburg
Fannie Drue Logan	Sunbury
Mabel Grace Maurer	New Berlin

NAME.	RESIDENCE.
Edwin Wilde Saylor	Philadelphia
Clara Kauffman Schaeffer	Fleetwood
Mary Georgiana Stanton	Chinchilla
Ruth Stephens	Lewisburg
Orienta Tola Thompson	Lewisburg
Lucinda Elizabeth Trauger	Lycippus
Annie M. Tule	Montandon
Sadie Wolverton	Shamokin

VIOLIN, VIOLA, VIOLONCELLO, DOUBLE BASS.

ORCHESTRA INSTRUMENTS.

William Andrew Bartol	Lewisburg
Elbert Allen Blakeslee	Montrose
Harry Allen Coryell	Shamokin Dam
Edna Luella Downing	Muncy
Ethel Mae Flanagin	Tuckahoe, N. J.
Benajah Jack Gardner	Factoryville
Flora Gruver	Williamsport
Ernestine Susanna Hyatt	Lewisburg
May Hollingshead	Milton
Elkanah Hulley	Lewisburg
Ruth Cushman Jones	Mahanoy City
Mae Elizabeth Jones	Franklin
Wilmer C. Johnson	Downingtown
William Marsh Lantz	Watsontown
Inez Edna Olds	Lewisburg
Clarence Ira Phillips	Turbotville
Louise H. Robinson	Milton
Leo Lawrence Rockwell	Monroeton
Hattie Russell	Watsontown
Carol Frances Spratt	Lewisburg
Paul George Stolz	Philadelphia
Violetta Wolfe	Rebersburg

SCIENCE OF MUSIC.

James Riley Bailey	Greensburg
Genus Ebert Bartlett	Webster, W. Va.
Walter Henry Bertin	Du Boistown
Winfield Scott Booth	Philadelphia

NAME.	RESIDENCE.
John Benjamin Boyer	Mandata
Charles Lucas Bromley	Reading
Clarence Burnap Comstock	Grover
Joseph Lewis Coon	Bald Mount
John W. Cure	Jermyn
William Eugene DeMelt	South Westerlo, N. Y.
John Grover Deninger	Great Valley, N. Y.
Linn Charles Drake	Tunkhannock
John Roy Farr	Muncy
Walter Budd Hilton	Philadelphia
Arthur Baer Hinterleiter	Kutztown
John Earl Hummer	Titusville
Philip Musser Irey	Warren
Hazel Knapp	Bristol, Ind.
Clarence Edward Long	Shippensburg
Esau Herbert Loomis	Wilmington, Del.
Thomas Edwin Martin	Donaldson
Norman Edward McCall	Falls Creek
David Jesse Park	Montandon
James Theodore Park	Montandon
Homer Derial Pease	Scranton
Frank Przybylski	Duryea
Edwin Warren Rumsey	Lewisburg
Horace Jones Sheppard	Cedarville, N. J.
Frank Laton Stewart	Vandergrift
Paul George Stolz	Philadelphia
Reinhold Ferdinand Stolz	Philadelphia
Earl Wayne Whitney	Wellsboro
Carl Shultz Yingling	Jersey City, N. J.

MANDOLIN, GUITAR.

Cottie Gudila Albright	Lewisburg
William Andrew Bartol	Lewisburg
Ebert Little Blakeslee	Montrose
Benjamin Isaac Brody	Blossburg
Charles Lucas Bromley	Reading
Alice May Clarkson	Williamstown
Edna Luella Downing	Muncy
James Wilson Ferrell	New Freeport
Ethel Mae Flanagin	Tuckahoe, N. J.
John William Grandfield	Clarksboro, N. J.

NAME.	RESIDENCE.
Ernestine Susanna Hyatt	Lewisburg
Levi Morrill Hainer	Norristown
Laura May Hummel	Kratzerville
Irene Humphrey	Curwensville
Ruth Jones	Parkersburg, W. Va.
Ruth Cushman Jones	Mahanoy City
Horace Brown King	East Smethport
Clarence Edward Long	Shippensburg
Carrie May McCaskie	Short Hills, N. J.
Mary Florence Mecredy	Camden, N. J.
Lawrence Oscar Manley	Canton
Carl Lyon Millward	Mt. Pleasant
Inez Edna Olds	Lewisburg
Margaret Weddell Pangburn	Elizabeth
Beatrice Rae Richards	Slatington
Olive Crozer Richards	Slatington
Mabel Sill	Bradford
Lenora May Shamp	Lewisburg
Anna Stage	Clearfield
Frank Laton Stewart	Vandergrift
Nelle Thomas	Philipsburg
Harold Edward Tiffany	Lewisburg
Beatrice Weill	Lancaster
Adaline Wheeler	Titusville
Sadie Wolverton	Shamokin
Violetta Wolfe	Rebersburg
Carl Schultz Yingling	Jersey City, N. J.
Mary Elizabeth Young	Lewisburg

SUMMARY.

Piano	72
Voice	30
Pipe Organ	7
Harmony	23
History of Music	23
Violin, Violoncello, Viola, Double Bass	22
Mandolin, Banjo, and Guitar	38
Science of Music	33
Total Lessons	248
Total Pupils	155

COURSES OF STUDY.

The School of Music is under the special charge of a French artist, whose musical education was received at the Conservatory of Music in Paris, and who has had a large and successful experience in teaching. He is supported by competent assistants, and the course is designed to afford every needed facility for the study of Vocal and Instrumental Music. An ample supply of pianos from the best makers is provided for practice, including a Concert Grand.

INSTRUMENTAL MUSIC.

COURSE FOR THE PIANO-FORTE OF FOUR YEARS FOR GRADUATION.

The pupil is required to pursue the most thoroughly approved modern system of technical training. After the first rudiments have been mastered, the course of instruction leads to the practice of *etudes,* designed to unite with purely technical drill the requirements of artistic style and expression.

PIANO.

FIRST YEAR.

New England Conservatory method, 1 and 2 parts; Le Couppey Ecole du Méchanisme; Duvernoy Ecole du Méchanisme, books 1, 2, and 3; Kohler, op. 157; Czerny, fifty Studies from op. 261, 821, 599, and 139, ed. of Heinrich Germer; Meyer, Progressive and Melodious Studies; Robert Sutton's "The Elements of the Theory of Music"; Brown, Musical Biographies of Composers.

SECOND YEAR.

Plaidy, Technical Studies; Czerny, Polyrhythmic Studies from op. 139, 834, 335, and 299; Czerny, Studies of Ornamentation from op.

355 and 833; Czerny, twelve Studies from op. 299 and 740; Czerny, thirty studies from op. 299 and 834 (Heinrich Germer Edition); Heller, Expression and Rhythm, op. 135; Kullak, Preparatory Octave Studies; Homer Norris's Practical Harmony; History of Music.

THIRD YEAR.

Clementi "Gradus ad Parnassum;" Tausig, Daily Studies; Kohler Cramer Studies, books 1, 2, and 3; Czerny, thirty-six Octave Studies from op. 821, 335, 740, and 834 (Heinrich Germer Edition); Norris, Harmony; Dr. Marx, Universal School of Music.

FOURTH YEAR.

Bach, two and three-voiced invention; Czerny, twenty Studies from op. 325; Czerny, nineteen Studies from op. 740; Czerny, Toccata, op. 92 (Heinrich Germer Edition); Kullak, Octave Studies; Chopin, Studies; Liszt, Studies; Bach, Well-Tempered Clavichord (prelude and fugues); Kullak, Art of Touch; Symphonies of Haydn, Mozart, and Beethoven.

During the year, selected studies from Bertini, Rosselen, Moscheles, Heez, and Thalberg are also given to the pupils.

That the æsthetic development may be proportionately secured, the above exercises are supplemented by the study of the works of the best composers.

COURSE FOR PIPE ORGAN.

The course is based upon:

Dudley Buck's Pedal Studies, and upon the works of Rink, Batiste, Lefébure-Wely, Guilmant, and others.

COURSE FOR THE VIOLIN.

This course is based upon:

Dancla's School of Mechanism; De Beriot's Violinist's First Guide; Fiorillo's Studies; Alard's Studies; Kreutzer's Studies, etc., with selections from the compositions of the best writers for this instrument.

COURSE FOR THE VIOLONCELLO.

Instruction for this instrument is based upon:

Méthod Pratique pour le Violoncello, par S. Lee; studies by Piatti and Romberg.

COURSE FOR VIOLA.

Bruni's Methods and Studies, by Campagnoli.

COURSE FOR CONTREBASSO (DOUBLE BASS).

Bottesini's Method.

VOICE CULTURE.

COURSE OF THREE YEARS FOR GRADUATION.

Careful instruction is given in the use of the voice, and the correct manner of producing purity of tone. To secure control over the voice and gain for it flexibility, fullness, and durability, thorough drills afforded in such technical exercises as:

Lamperti's and Vannuccini's Italian Methods, Vocalises of Sieber, Concone, Tütgen, Vaccai, Bonaldi, Bordogni, Marchesi, and Ponafka; Lamperti's Studies in Bravura Singing. For expression and the development of a pure style, practice is afforded in singing the best English, German, Italian, and French Songs, Operatic Arias and Solos from the Oratorios.

COURSE IN HARMONY.

It is urgently recommended that the study of Harmony be included in the other musical work, inasmuch as a sound knowledge of its principles is essential to the success of all vocalists and instrumentalists. The text-books used are: Bussler's Harmonic Exercises, Homer Norris's Practical Harmony, Richter's Counterpoint, and Reicha's Course of Musical Composition.

THE ORCHESTRA.

CLASSES FOR ALL ORCHESTRAL INSTRUMENTS.

Students who are sufficiently advanced in any of the above musical instruments will have opportunity of practice in string quartettes, trios, concertos, and symphonies of Beethoven, Mozart and Haydn.

THE BAND.

A Brass Band, consisting of about twenty pieces, has been organized, and is led by M. Elysée Aviragnet, Director of the School of Music. The Band meets weekly in the Laboratory for rehearsal, and furnishes street and concert music for University and town exercises.

RECITALS.

On the Friday evening prior to Commencement Week a public recital of the School of Music is held in Bucknell Hall.

The public examination of those who desire certificates of proficiency is held in Bucknell Hall the Saturday afternoon before commencement. At this time each pupil plays or sings two pieces of high grade, and reads an essay on some subject connected with music.

TUITION.

Extra tuition is charged for instruction in Music, as follows:

	Per Annum.
Vocal Music	$60 00
Music on Piano *or* Organ	60 00
Harmony, in Class	18 00
Harmony, private lessons	60 00
Use of Instrument for practice	10 00
Guitar, in Class	15 00
	Per Lesson.
Special individual instruction in Music	$1 00

No reduction will be made except in case of protracted illness.

Instruction in the Orchestra and in Harmony is free to pupils otherwise studying music.

RESIDENCE OF MUSIC PUPILS.

Pupils in music reside in the Institute, and are under the care of the Dean of Department for Women. Students pursuing any of the Institute courses can also take studies in music. Those who wish to make music a specialty are recommended to take at least one study each term in Language or Literature.

The regular charges for pupils in music, residing in the Institute, including one literary subject per term, are $200 per annum. This *does not* include charges for instruction in music, which are determined by the number of lessons taken per week.

GRADUATION IN MUSIC.

Students who complete any of the Courses in Music and pass the examinations, receive a certificate of proficiency. Students will not be ranked as Seniors in Music until they have passed an examination before the Committee. Besides the examination before the Committee for admission to the Senior Class, students will be required to pass a preliminary examination at the opening of the Spring term, and a final examination before Commencement Week. Students will not be admitted to the final examination unless they have passed the preliminary examinations.

THE AVIRAGNET PRIZES.

Professor Elysée Aviragnet has established three prizes, as follows:

1. (*a*) One prize for excellence in Instrumental Music and Harmony, (*b*) one for excellence in the Science of Music.

For 1904 the prize for excellence in Instrumental Music and Harmony was awarded to Ruth Angeline Bottorf.

2. A prize for excellence in French.

For 1904 this prize was awarded to Edith Sarah L. McNinch.

GENERAL REMARKS.

Young ladies attending upon the School of Music are subject to the administration and other regulations enacted by the Board of Trustees for the government of students in the Institute. These rules are given on pages 185-187 of this Catalogue. Students of Music are also entitled to all the privileges of the Institute.

For information respecting the School of Music, address the Director, Elysee Aviragnet, Mus. Doc., or the President of the University.

UNIVERSITY CALENDAR

1905–1906

Second Term Ends, ...Friday, March 24, 1905

SPRING RECESS.

Third Term Begins, ...Wednesday, March 29, 1905
Sermon before the Christian Associations, ..Sunday, April 9, 1905
Declamation of the Third Form, Academy, Saturday, April 15, 1905
Exercises of the Fourth-Year Class, Institute,
Saturday, April 29, 1905
Contest in Elocution, Institute, ...Saturday, May 13, 1905
Exhibition of the Junior Class, College, ...Friday, May 19, 1905
Examinations, ...Thursday to Saturday, June 15 to 17, 1905
Exhibition, School of Music, ...Friday, June 16, 1905
Junior Debate, ...Saturday, June 17, 1905
Baccalaureate Sermon, ...Sunday, June 18, 1905
Sermon before the Education Society, ...Sunday, June 18, 1905
Examinations for Admission to College, ...Monday, June 19, 1905
Meeting of the Alumnæ of the Institute, ...Monday, June 19, 1905
Oration before the Literary Societies, ...Monday, June 19, 1905
Annual Meeting of the Trustees, ...Tuesday, June 20, 1905
Annual Meeting of the Alumni, ...Tuesday, June 20, 1905
Exhibition of the Fourth Form, Academy, ..Tuesday, June 20, 1905
Graduating Exercises of the Institute, ...Tuesday, June 20, 1905
Oration before the Alumni, ...Tuesday, June 20, 1905
ANNUAL COMMENCEMENT, the 55th, Wednesday, June 21, 1905

SUMMER VACATION.

Examinations for Admission to College,
Wednesday, September 20, 1905
First Term Begins, ...Thursday, September 21, 1905
Reception by Christian Associations, Saturday, September 23, 1905
Introductory Address, ...Monday, September 25, 1905
Matriculation, ...Monday, November 27, 1905
Thanksgiving (recess of three days), Thursday, November 30, 1905
First Term Ends, ...Thursday, December 21, 1905

HOLIDAY RECESS.

Second Term Begins, ...Wednesday, January 3, 1906
Day of Prayer for Colleges, ...Thursday, January 25, 1906
Second Term Ends, ...Friday, March 23, 1906

CONTENTS.

	PAGE
Departments	2
Summary of Attendance	2
Calendar	2
Plan and Purpose of University	3
Corporate Rights	3
Endowment	3
The Million Dollar Movement	4
Form of Gifts	4
Form of Bequest	5
Organization	6
The Board of Trustees	7
Meetings of the Board	7
Committees of the Board	8
The University Property	9

THE COLLEGE

The Faculty and Other Officers	15
Alumni Associations	19
Students	21
Graduate	21
The Senior Class	26
The Junior Class	30
The Sophomore Class	34
The Freshman Class	38
Pursuing Special Studies	44
Admission	46
To Freshman Standing	46
To Advanced Standing	50
Honorable Dismission	51
Courses of Study	52
Curricula	54
I. Classical Course	54
II. Philosophical Course	57
III. General Science Course	62
IV. The Course in Jurisprudence	65
V. The Course in Biology	68
VI. The Course in Chemistry	70
VII. The Course in Civil Engineering	72
Lecture Courses	74
Departments of Instruction	75
Philosophy	75
Law	78
Economic and Political Science	79
Sociology	81
History	82
Greek Language	83
Latin Language	85
English Language	87
Rhetoric and Oratory	89
Modern Languages	92
Mathematics	95
Chemistry	101
Organic Science	103
Medicine	105
The Biological Laboratory	106
The Museum	107
The Libraries and Reading Room	108
General College Orders	110
Attendance	110
Standing	110
Examinations	111
Public Worship	111
Government	112
Office Hours	112
Voluntary Societies	112
Health and Physical Culture	113
Aids and Honors	114
Prizes	114
Scholarships	116
Honor Studies	118
Expenses	120
Fifty-fourth Annual Commencement	122

THE ACADEMY.

Instructors and Other Officers	130
Students	131
The Fourth Form	131
The Third Form	132
The Second Form	132
The First Form	134
Pursuing Select Studies	134
Courses of Study	137
Curricula	138
Methods of Instruction	143
General Information	149

PAGE

Advantages 149
Government 149
Buildings and Rooms 150
Unfurnished Rooms 150
Articles Required 151
Boarding 151
Appliances 151
School-Room 152
Hours 152
Standing and Promotions 152
Prizes 153
Literary Society 153
Religious Services 153
Expenses 155

THE INSTITUTE.

Instructors and Other Officers 156
Directory of the Alumnæ 158
Students 159
Graduates 159
The Senior Class 159
The Fourth Year Class 160
The Third Year Class 160
The Second Year Class 161
The First Year Class 162
Pursuing Select Studies 162
Courses of Study 165
Curricula 167
Methods of Instruction 173
I. Psychology and Ethics 173
II. Literature and Art 173
III. History 173
IV. The English Language 174
V. The Latin Language 174
VI. The Greek Language 174
VII. The Modern Languages 175
VIII. Mathematics 175
IX. Science 176
Physical Culture 177
Æsthetic Culture 178
Social Culture 178
Religious Training 178
Special Branches 179
Public Exercises 179

PAGE

Alumnæ Societies 180
Students' Loan Society of Bucknell Institute 180
Department of Elocution 181
The Art Department 183
Art Exhibit 184
Students in Art 184
General Information 185
Prizes 188
Expenses 190

SCHOOL OF MUSIC.

Instructors 191
Graduates in 1904 192
Students 193
Piano 193
Voice 195
Pipe Organ 195
Harmony 196
History of Music 196
Violin, Viola, Violoncello, Double Bass 197
Science of Music 197
Mandolin, Guitar 198
Courses of Study 200
Instrumental Music 200
Piano 200
Pipe Organ 201
Violin 201
Violoncello 202
Viola 202
Contrebasso 202
Voice Culture 202
Course in Harmony 202
Orchestra 203
Band 203
Recitals 203
Tuition 203
Residence of Music Pupils 204
Graduation in Music 204
Prizes 204
General Remarks 205

Calendar 206

Franklin Printing Company
Philadelphia.